BS MATH 8TH SEMESTER

FINAL TERM PAPER CS411 MARCH 2022

Solved By Pin2

Q No 1. What is the code of "for loop" to add the n even number in JavaScript?

```
<script type="text/javascript">
function sum()
{
var n,i, sum = 0;
n = parseInt(document.getMyProgram ("first").value);
for (i = 1; i < = n; i++)
{
if(i%2 == 0)
{
sum = sum+i;
}
}
document.get<MyProgram ("num").innerHTML ="Sum of " +n+ " even natural numbers is
:"+sum;
}
</script>
```

Q No 2. What are the five types of HTML? 5 marks

Five types of html in use:

- HTML 4.01 Transitional
- HTML 4.01 Strict
- XHTML 1.0 Transitional
- XHTML 1.0 Strict
- HTML5

Q No 3. How to define binary resource and what are the categories of binary resources in WPF? 3 marks

Binary resources are what rest of .net framework considers a resource. To define a binary resource, add a file and set the build action resource or content (loose file).
Binary resource has two categories
Binary resource can be embedded to assembly
Binary resource can be loose file that may or may not be known at compile time. It can be localizable or not.

Q No 4. Write the properties of touch point in C#. 3 marks

The properties of Touchpoint are Position, Size, Bounds, touchdevice, Action (Down, Up, Move).

Q No 5
What will be the output of the code.

```
Async void displayprimecounts()
{
For (int i = 0; i < 10; i++)
Console.writeline(await getprimescountasync(i) }
```

5 marks

It is a code for UI program that remains responsive with a cpu bound task. In the given codes we have used for loop. When the first call of getprimecounts is given then control will be returned and remaining code will go in continuation. We have called await from inside the for loop. Because i is also captured and is available in the continuation, so i will also be incremented in each iteration. We will move onward from await when **getprimescountasync** is finished and at that time we resume as just returned from await expression.

Q No 6 Create a single instance application using WPF. 5 marks

Single instance application means that it should be run only one time.

```
Bool mutexisnew;
Using (System.Threading.Mutex m = New System.Threading.Mutex(true, uniquename, out
mutexisnew))
{
If (mutexisnew)
// This is the first instance. Run the application.
Else
// There is already an instance running. Exit!
}
```

Q No 7 Write the XAML code to create a list box with three items. 5 marks

```
<listbox xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"> <listbox.Items>
<listboxitem Content= "Item 1"/>
<listboxitem Content= "Item 2"/>
<listboxitem Content= "Item 3"/>
</listbox.Items>
</listbox>
```

Q No 8 What is the purpose of Block in Objective-C. 3 marks

Blocks are a language-level feature added to Objective-C, which allow you to create distinct segments of code that can be passed around to methods or functions as if they were values. Blocks are Objective-C objects, which means they can be added to collections like NSArray or NSDictionary.

Q No 9 Define the Data template using XAML? 3 marks

Data template is a bit of XAML that describes how bound data is displayed. A data template can contain elements that are each bound to a data property along with additional markup that describes layout, color and other appearance.

Q No 10 Differentiate between Get and Post Method. 3 marks

In GET method, values are visible in the URL. In POST method, values are not visible in the URL. GET has a limitation on the length of the values, generally 255 characters. POST has no limitation on the length of the values since they are submitted via the body of HTTP.

GET results can be bookmarked. POST results cannot be bookmarked.

GET Parameters remain in web. In Post Parameters are not saved in web.

Get method supports only string data types. Post This method supports different data types, such as string, numeric, binary, etc.

Q No 11 Define iOS language feature block also write its syntax. 3 marks

Block is **a chunk of code that can be executed at some future time**. Blocks are first-class functions, which is a fancy way of saying that Blocks are regular Objective-C objects. Since they're objects, they can be passed as parameters, returned from methods and functions, and assigned to variables.

The syntax to define a block literal uses the caret symbol (^), like this:

^{ NSLog(@"This is a block"); }

Q No 12. Write the difference between onetime binding and onewayTo Source binding. Also give example of both in XAML.

In **one time binding**, control value is updated only when the application is initialized. This means you cannot change the value from source to control; as for changing the value, you have to write code in code behind file, so that you can change value from the back-end programming.

In **One way to source binding**, target control updates the source control, which means if you change the value of the target control, it will update the value of the source control. It is just the opposite to One way binding.

one time binding Example

```
txtvalue.Text = "50";
mySlider.Value = Convert.ToInt32(txtvalue.Text);
```

One way to source binding Example

```
<TextBox Name="txtvalue" Text="{Binding ElementName=myCS411, Path=Value, Mode=One
WayToSource, UpdateSourceTrigger=PropertyChanged}">
</TextBox>
```

Q No 13 Give the structure of protocols in Objective-C.

Objective-C allows you to define protocols, which declare the methods expected to be used for a particular situation. Protocols are implemented in the classes conforming to the protocol.
A simple example would be a network URL handling class, it will have a protocol with methods like processCompleted delegate method that intimates the calling class once the network URL fetching operation is over.

A syntax of protocol is shown below.

```
@protocol ProtocolName
@required
// list of required methods
@optional
// list of optional methods
@end
```

Q No 14 Write steps to talk to a webserver while using AJAX.

1. Specify the HTTP method (such as POST or GET).
2. Provide the URL of the server-side resource to be contacted.
3. Let the XHR (xml http request) instance know how it can inform you of its progress.
4. Provide any body content for requests such as POST.

Q No 15 Given below in XAML code for stack panel.
<stack panel> </stack panel>
You are required to modify the given code to give the stack panel gradient background. Use three colors in gradient.

```
<lineargradientbrush x:Key="backgroundbrush" startpoint="0,0" endpoint="1,1">
<gradientstop Color="Blue" Offset="0"/>
<gradientstop Color="White" Offset="0.5"/>
<gradientstop Color="Red" Offset="1"/>
</lineargradientbrush >
```

Q No 16 Why we need concurrency in our application?

Any circumstance under which an object interrupts the processing of a message to process another opens the possibility of race conditions and, thus, requires the use of concurrency controls so concurrency is More than one thing happening at the same time.
We need concurrency for comparison of events.
We need concurrency for Responsive user interface
We need concurrency to handle Simultaneous requests
We need concurrency in Parallel programming.

Q No 17 Write XAML code which rotate the button at the angle of 90 degrees.

```
<Button>
```

<Button.rendertransform>
<transformMyButton>
<rotatetransform Angle="90"/>
</transformMyButton >
</Button.rendertransform >
OK
</Button >

Q No 18 Consider the XAML code
<TextBox Name= "txt1"></ /TextBox>
<Button Name= "btn1"></Button>
Modify the given code so, whatever the text is written inside textbox it is automatically written as Button text.
Note: - Modify the XAML code only do not write C# code.

<TextBox Name= "txt1">txt1< /TextBox>
<Button Name= "btn1">btn1</Button>

Q No 19 Differentiate the need of Binding and Command in WPF.
Data binding is a mechanism in WPF applications that provides a simple and easy way for Windows Runtime apps to display and interact with data. In this mechanism, the management of data is entirely separated from the way data. Data binding allows the flow of data between UI elements and data object on user interface.
The command is the action to be executed. The command source is the object which invokes the command. The command target is the object that the command is being executed on. The command binding is the object which maps the command logic to the command. Commands are a more abstract and loosely coupled version of events e.g. Cut copy paste commands. They are exposed in various ways. They can be enabled disabled e.g. If there is nothing to paste. Two-way communication gets cumbersome especially if you don't want the list of controls hard-coded. WPF defines a number of built-in commands. Commands have automatic support for input gestures (such as keyboard shortcuts). Some of wpfs controls have built-in behavior tied to various commands.
Q No 20 Which type of information is provided in following windows properties in WPF?
a) Owner b) OwnedWindows
Whenever an application makes a window then the concept of parent window and child window arises. The key difference between child window and parent window is that if we close the child window then there will be no effect on parent window but if we close the parent window than child window will also closed. The owner property contains the information of parent window while OwnedWindows contains the information about the list of child window.

Q No 21Define the term "Retain Cycle" in Objective-C.

Retain Cycle is the condition When 2 objects keep a reference to each other and are retained, it creates a retain cycle since both objects try to retain each other, making it impossible to release. For example a situation in which object "First" retains object "Second", and object "Second" retains object "First" at the same time.

Q No 22 Write the names of data binding modes in WPF.

Binding Mode can be

Oneway, Twoway, Onewaytosource, Onetime

Q No 23 Identify application commands and component command.

i) Close ii)Find iii)Selecttoend d) help e) MoveRight

Application commands

Close, Find and Help

Component command

MoveRight and Selecttoend

Q No 24 What are three steps of implementing parallelism. Also differentiate between Data and Task parallelism.

Data Parallelism means that we may have a lot of data on which we want to do the same operation. In task parallelism, we may have lot of task, which we have to do in parallel, which are different tasks. In Data parallelism we do the same task on data which is easiest kind of parallelism. All the task will start from one point in data parallelism. In task parallelism different task will starts at different points and ends on different points

There are three steps while implementing parallelism.

1. Partition your Problem
2. Process your partition
3. Combine the Result.

Q No 25 What are the two possible destinies for object marked as auto release using object-C. Also declares an object as autorelease.

Auto release is another message that we can send to an object. Auto release is like saying the object that I no longer want to hold the reference to this object but don't delete this object immediately. Auto release solve the problem that when you want to return something but do not want to hold the reference.

Retain and release is the two possible destinies for object marked as onto release using object-C. The deallocation is only done by the object itself in Object-C.

Nsobject *x = [[[nsobject alloc] init] autorelease];

Q No 26 What do you means by Dangling pointer and memory leak?

Dangling pointer means that we have allocated some memory and then we freed that memory but the pointer is still pointing at the same place. Memory leaks means that we allocate some memory, we have a pointer pointing to it, and then we make the pointer points to somewhere else. Now you have no pointer to this allocated memory.

Q No 27 Write the difference between one way and two way data Binding

One way
The target is updated whenever the source changes.
Two way
A change to either the target or source updates the other.
One way to source
This is the opposite of one way. The source is updated whenever the target changes.
One-time
This works just like one way, except changes to the source are not reflected at the target. The target retains a snapshot of the source at the time the Binding is initiated.

Q No 28 Can the operating system distinguish between window with WPF content and window win32 content?

No, operating system cannot distinguish between window with WPF content and window win32 content. We can even create Host WPF content in a Win32 window, with this technique; we can use the advanced graphics capabilities of WPF within the framework of a standard Win32 window and application. We can also host a Win32 window in WPF content, with this technique you can use an existing custom Win32 control in the context of other WPF content, and pass data across the boundaries.

Q No 29 Which element must be added to the project file to specify a default culture for resources and automatically build an appropriate satellite assembly.

If we have a main executable assembly and then there are some DLLs assembly one for each culture you want to support, then, all the content which is culture specific will go into satellite assembly and rest of all the main logic will reside in main assembly. Main assembly combined with any satellite assembly is a complete application.
Myprogram.exe is main assembly and MyProgram.resources.dll is satellite assembly. The programs are executable by combination of both assemblies. The currently chosen culture will use MyProgram.resources.dll
We will specify the default culture in project file by using uiculture tag. We will give uiculture tag in property group like debug version or release version to make it culture specific.

Q No 30 Write the difference between interface and class. 3 marks

A class is a blueprint from which we can create objects that share the same configuration - properties and methods. An interface is a group of related properties and methods that describe an object, but neither provides implementation nor initialization for them.

Q No 31 How can we create objects in objective-C? also provide syntax. 3 marks

In objective-C we send a message to the object. Calling the method on the object is same as sending a message to the object. In objective-C first we allocate by using keyword alloc and then we call the constructor.
NSMutablearray *arrayInstance = [NSMutablearray alloc];

```
[arrayInstance init];
NSMutablearray *arrayInstance = [[NSMutablearray alloc] init];
message = [receiver selector arguments]
 [arrayInstance addObject:anotherobject];.
```

Objective-C is a thin layer atop C and is a "strict superset" of C, meaning that it is possible to compile any C program with an Objective-C compiler and to freely include C language code within an Objective-C class.

Objective-C derives its object syntax from Smalltalk. All of the syntax for non-object-oriented operations (including primitive variables, pre-processing, expressions, function declarations, and function calls) are identical to those of C, while the syntax for object-oriented features is an implementation of Smalltalk-style messaging.

Q No 32 Write any two design Goals for JQuery?

JQuery was introduced to make development with JavaScript easier. It will reduce the development time. Use it to add animation and even handling on your website. JQuery simplifies HTML document traversing, event handling, animating, and Ajax interactions for rapid web development.

Q No 33 Write the names of command library classes?

Application commands
Component commands
Media commands
Navigation commands
Editing commands

Q No 34 How we can create & started a new thread? write code create start a thread. 5 marks

```
Class threadtest
{
Static void Main()
{
Thread t = new Thread(writey);
T.Start();
For (int i = 0; i < 1000; i++) Console.Write("x");
}
Static void writey()
{
For (int i = 0; i < 1000; i++) Console.Write("y");
}
```

}

Q No 35 List three commands define by "Icommand" interface.
icommand defines Execute, canexecute, canexecutechanged as a Command.

Q No 36 Write an equivalent C# code using task combinatory (ignore the exception)
Task task1= Delay1();
Task task2= Delay2();
Task task3= Delay3();
Await task1;
Await task2;
Await task3;

Q No 37 Write a function in JavaScript that will add ten even numbers using a for loop.

```
<html>
<body>
<script type= "text/javascript">
<!--
var a=1;
var sum=0;
for(a=1;a<=10; a++)
{
If(a%2==0)
{sum=sum+a}
}
document.write(sum);
//-->
</script>
</body>
</html>
```

Q No 38 What are the three major types in JavaScript? 3 marks
JavaScript allows you to work with three primitive data types: numbers, strings of text (known as "strings"), and boolean truth values (known as "booleans").

Q No 39 Consider the following code lines and explain what we are trying to achieve from them. 5 marks
Msbuild/t:updateuid Projectname.csproj.locBaml/parse
Projectname.g.en-US .resources/out.en-US.csv

Running this gives every object element in every XAML file in the project on x:Uid directive with a unique value and LocBaml /parse ProjectName.g.en-US.resources /out:en-US.csv, this generate a simple .csv file containing all the property values you should need to localize.
or
We are trying to localize the element using Uid directive. Here updateuid will specify the files, which are needed to be localized, so updateuid will give Uid to all XAML file after searching it from csproj file. Then locBaml will convert it to string resources to out.en-US.csv file. All the strings will accumulate in comma-separated file. Now we can convert it to any new language satellite assembly by locBaml /generate.

Q No 40 Separate server side language and Client side language. (3Marks)
Server side language
PHP, ASP.net, Cold Fusion, Ruby, Python, JAVA, C#, C++ are server side languages.
Client side language
JS(Java Script), CSS, HTML are Client side languages.
Q No 41 What is the purpose of the following objective-C code

```
NSData *imageData = [NSURLconnection
sendSynchronousRequest:urlRequest
ReturningResponse:nil
error:&downloadError];
```

The given code is used to download data. Sendsynchronousrequest is used as a function of Nsurlconnection to download data. As there could come an error in downloading data so we have make a variable name downloadError. If ReturningResponse is nil than data will be downloaded otherwise error message will display on screen.
Q No 42 Write C# code which navigate to URI using the Navigate Method.
Navigate to a page via a URI

```
This.navigationservice.Navigate(new Uri("photopage.xaml", urikind.Relative));
```

Q No 43 Explain at-least two memory management problems using Objective-C
Memory leak and Dangling pointer are the two main memory management problem using objective-C. In Objective-C all objects are created on the heap, this means objects continue to consume memory until they're explicitly deallocated. They are not cleaned up automatically when the code that uses them goes out of scope. If our application loses all references (pointers) to an object but doesn't deallocate it first, the memory it consumes is wasted. This waste is typically called a memory leak, and if your application has too many memory leaks, it becomes sluggish due to running out of available memory. If we deallocate an object too early and then reference it again, our application could crash or exhibit incorrect and random behavior.
Q No 44 Consider the following C# code snippet

```
Public class app
```

```
{ private int a=10;
Protected static void sum ()
{ int result= a+20;}
}
```

Q No 45 AJAX is the interaction of which type of technology? Name them.

Ajax is made up of the following technologies:

- XHTML and CSS for presenting information
- Document Object Model (DOM) for dynamically interacting with and displaying the presented information
- XMLHttpRequest (XHR) object to manipulate data asynchronously with the web server.

Q No 46 When manipulationDelta event is raised in WPF touch events? Also mention the name of manipulation delta event properties.

The ManipulationDelta event occurs multiple times when the user drags fingers over the screen during a manipulation and again when inertia occurs. We can use the isInertial property to check whether the event is occurring during inertia. The element on with ManipulationDelta event occurs is not affected in any way when the event occurs. You must provide the logic to the element that is to be manipulated.
Manipulationdelta class has properties, Translation, Scale, Rotation and Expansion.

Q No 47 What is the purpose of using navigation in pages, mention 5 ways to perform navigation.

The purpose of navigation is to ascertain the present position and to determine the speed, direction to arrive at the port or point of destination. Page navigation allows us to flow from one page to another without frustration.
Browseback, browseforward, browsehome, browsestop, Favorites, firstpage, gotopage, lastpage, nextpage, previouspage, Refresh, Search, Zoom are different way to perform navigation.

Q No 48 Write the event properties of JQuery of PageX and PageY, ScreenX and ScreenY.

PageX is the distance (in pixels) of the mouse pointer from the left edge of browser window.
PageY is the distance (in pixels) of the mouse pointer from the Top edge of browser window.
ScreenX is the distance (in pixels) of the mouse pointer from the left edge of monitor.
ScreenY is the distance (in pixels) of the mouse pointer from the Top edge of monitor.

Q No 49 Write name of main method available in dispatcher class of C#

System.Windows.Threading is the main method available in dispatcher class of C#

BeginInvoke(Delegate, DispatcherPriority, Object[])

Q No 50What does it means
[Locationmanager setdistanceFilter:kcldistancefilternone];
Above code means that we want all results from the location manager

Q No 51 Give the syntax to hide all <p> tags in html using JS and JQuery.
General Syntax
$(selector).hide(speed, easing, callback)
Hide all <p> elements:
```
$("button").click(function(){
  $("p").hide();
});
```

Q No 52 Explain Automatic looping and chaining function with example in JQuery.
JQuery enable us to change the tag by using looping. So JQuery provide us automatic looping. JQuery provide us functions that are applied to all the elements of JQuery Selection object. First, we make selection and then apply it on the all elements. We can perform multiple operation after selection and is called chaining function. JQuery does not return any DOM list but it give us special selection object on which we can apply different function and it applies on all the selection and it is called automatic looping. Chaining means that a function can be chain means we can call function one after the other.
Automatic Looping Example
$('#slideshow img').hide();
In this example it will hide all the elements which came under above selection.
Chaining Function Example
$('#popup').width(300).height(300);

Q No 53 Define "dealloc msg" and who is responsible for sending message in objective-C?
Dealloc message will freeze the object. The object itself cannot be deallocated. We use reference counting for deallocation means we count the references towards the object. If a new pointer points towards our object, than it will increase the count and if a pointer leaves the pointing towards object, it will decrease the count. When the count reaches Zero, we should call dealloc. The pointer owner, which are pointing towards object will call dealloc and free the memory. The deallocation is only done by the object itself no one else should tell the object to deallocate. The retain and release call are used for allocation and deallocation of memory.

Q No 54 How we can convert Synchronous method into asynchronous in C# 5.0?
We can convert Synchronous method into asynchronous in C# 5.0 by inserting some special keywords like await and async. Async will tell the compiler that we will use await key word.
```
var result= await expression;
statement(s);
```

await will call the getawaiter of the expression and when the awaiter complete its work then

Q No 55 What are manipulation events? When does it work?

Manipulation events are manipulationstarting and manipulationstarted, manipulationdelta, manipulationcompleted. We combine information from multiple events. Manipulation events work if ismanipulationenabled=true on this or a parent and basic events not handled.

Q No 55 What is static and dynamic resources.

Static Resources retrieved once by referencing element and used for the lifetime of the resources. Whereas, Dynamic Resources retrieve every time they are used. The downside of Dynamic resources is that they tend to decrease application performance. Dynamic resource reapplied every time it changes nothing special about the resources. Dynamic use more overhead but demand loaded. Dynamic can only be used to set dependency property. Static can even abstract whole controls. In case of dynamic resource, we actually subscribe to the updates of the source, if the source changes, dynamic resource will also change. In static resource we use the value only one time. Static cannot do a forward difference.

Q No 57 How can we prevent a window from automatically being activated.

When a window with its Show Activated property set to false is opened, the window is not activated and its Activated event is not raised until a user manually activates the window by selecting it. After the window is selected, it activates and deactivates normally.

Q No 58 Write the code so that the style of paragraph will be same in CSS

A single CSS style is a rule that tells how to format. Make "this" look like "that". There are Selector and declaration block. E.g. Selector can be headline, paragraph of text, photo etc. Declaration block can turn text blue, add red border around a paragraph, position the photo at center of page etc.

```
p { Color : red; font-size: 1.5em};
```

Here p is the selector, which means all paragraph that are contains in p tag. In rule/declaration block, we set color of paragraph red and font size 1.5em. selector, declaration block has declarations. Each is a property value pair and then ";".

Q No 59 Write the difference in touch began if we swipe the mobile touch screen with three fingers altogether or if we touch screen three-time separately like after one-another?

Whenever we receive a touch event, we will get a set of touch event and every individual finger traced separately. We will receive a UI Event that will tell us about the type of event. In the set every object is the object of UI Object, that touch object will represent the touch of a particular finger. If we touch with three fingers and start swipe then, we receive three UI object in each touch object set. They will be the same object and their location will update after each interval. If touch began event is started and we have remembered the UI touch, then on each move we receive the same UI touch object. If we press finger one after another then we receive three

touch began event and there will only one UI object event in each set and they will differ from each other, but when movement started all three UI object will be there because all three fingers are moving simultaneously.

Q No 60 If we want to bind the entire set of XML data to an element that understand hierarchies(Tree or Menu) Without custom code, then which Data Template and how many of them we must use?

The HierarchicalDataTemplate class is designed to understands hierarchies and can be used with Treeview or menu with HeaderedItemsControl types to display such data.

Q No 61 What will be the output of the code.

```
Async void displayprimecounts()

{ For (int i = 0; i < 10; i++)

Console.writeline(await getprimescountasync(i) }
```

This method is first called. The first line of code is the for loop, so i is initialized and loop check passes, so we go to the body of the loop. **getprimescountasync** is called and should return a Task<T> very quickly, but the work that it'd doing will keep going on in the background. The rest of the method is added as a continuation to the returned task; it will continue executing when that task finishes. After the task returned from **getprimescountasync** finishes, we store the result in value. value is printed to the console.

In this code when getprimecountsync first call is made the control will be returned and remaining code will go in continuation. We will go onward from await when getprimecountsync is finished and we code will assume that it just return from the await expression.

Q No 62 Write the Difference in concurrency and parallelism.

When two or more tasks can start, run, and complete in overlapping time-period than it is called concurrency. It does not necessarily mean they will ever both be running at the same instant. When different tasks literally run at the same time than it is called Parallelism.

Q No 63 Create input field in html and JavaScript to calculate percentage.

Q No 64 Is JavaScript is developed from java? If no then give reason

JavaScript is not a subset of Java, as C is a superset of Java. JavaScript is superior to Java. JavaScript was originally named Mocha, later it was renamed to Live-Script, and then to JavaScript. The Live-Script to JavaScript name change came because Netscape and Sun did a license agreement. The suffix Script indicates that it is not an actual programming language, but a scripting language. JavaScript is not actually an open name. It is currently a trademark of Oracle (formerly Sun).

Objective Paper CS411

In objective C @ is shortcut for creating

- NS string

The original name of JavaScript was .

- JavaScript
- LiveScript pg 179
- wireScript
- none of the given

AJAX stands for .

- Abstract JSON and XML
- Asynchronous JavaScript and XHtml
- Asynchronous JavaScript and XML
- Abstract Java and XML Library

CSS is called_____ layer.

- Physical
- Presentation PG # 179
- Behavioral
- Structural

Which of the following is NOT true about threads?

- Threads are useful to handle simultaneous requests.
- A program can have more than one thread
- Data cannot be share among the threads.
- Each thread can proceed independently of other threads.

In multiple threads environment each thread is executed _____ time

-

Navigation window is more like a _____ window

- Top-level window

Which one is not true about data template?

-

The shift key object is true if the shift key is_____ when the event occurs.

- Down
- Up
- Click
- Pressed

JavaScript was invented in _____ by Brendan Eich .

- 1995

The ____ syntax registers a delegate with the event.

- +=

_____ attribute has to be enabled for multi-touch in objective-C

- setMultitouch
- setMultitouchenable
- setMultiTouchEnabled
- TouchEnabled

WPF transformation can be used for

- Rotation only
- Scaling only
- Skewing only
- Scaling Rotation and Skewing

The best way to implement simple threading in Windows Forms programs is to use the ___ class.

- BackgroundWorker
- Windowsform
- Simplethreadworker
- None of the given

_____ are called while allocation and deallocation memory in C++

- New and delete
- Malloc and free
- Alloc and dealloc
- 1 & 2

_____ are called while allocation and deallocation memory in C

- New and delete
- Malloc and free
- Alloc and dealloc
- 1 & 2

_____ are called while allocation and deallocation memory in Objective-C

- New and delete
- Malloc and free
- Alloc and dealloc
- 1 & 2

The operating system does not distinguish between windows with_____ content and window with _____ content.

- Button and textbox
- WPF and WIN32
- Static and Dynamic
- Static and Animated

_____ performs the parallel equivalent of a C# for loop.

- Parallel.Invoke()
- Parallel.ForEach
- Parallel.For()
- Parallel.Task

_____ executes an array of delegates in parallel manner.

- Parallel.Invoke()
- Parallel.ForEach
- Parallel.For()
- Parallel.Task

In C# 5.0, _____ call chains can enable to return a task from void function

- Async
- Sync
- Both 1 & 2
- Block

_____is the JQuery event parameter we use in event.

- Shift key
- Arrow Key
- Home key
- Up key

_____ provide a thread safe last in first out data structure.

-

In XAML browser application, how much isolated memory we can use ?

- 256 kb
- 128 kb
- 512 kb PG # 132
- 1024 kb

The biggest problem in reference counting is _____ .

- Cycle

An event that is raised whenever the value of "CanExecute" changes is known as .

- CanExecute
- CanExecuteChanged
- Command
- Execute

: HTML is called_____ layer.

- Physical
- Presentation
- Behavioral

- Structural PG # 179

JS (JavaScript) is called_____ layer.

- Physical
- Presentation
- Behavioral PG # 179
- Structural

Shift key is true if the shift key is _____when the event occurs.

- Down PG # 187
- Up
- None of the given
- Move

Which of the following response show internal server error?

- 404
- 500 pg 193
- 200
- 304

When a button makes itself disabled, then the value of "Focusable" property is_____?

- False
- Null
- True
- None of the given options

ManipulationCompleted gets raised after _ is raised for all fingers.

- TouchMove
- TouchUp PG # 116
- TouchDown
- TouchRight

CSS is a_____ language.

- Object Oriented
- Structuring
- Formatting PG # 180
- Non

JavaScript code is written inside file having extension_____. .

- JSC
- JS
- Javasript
- JVS

Which of the following is TRUE about Object data providers?

- This is useful for binding XML data
- This is useful for binding objects which are designed for binding

- This is useful for binding objects which are not designed for binding PG # 151
- None of the given

Which of the following is TRUE about IsAsync in context of data binding?

- This is used to access the property of an object in background
- This is used to access the property of an object in foreground
- This is used to create data source object in background
- This is used to create data source object in foreground

"Refresh" is a predefined building command classified as:

- Navigation command PG # 121
- Media command
- Application command
- Editing command

Which of the following is correct way to start execution of a thread object named as myThread?

- myThread.Go();
- myThread.Start(); PG # 156
- myThread.Begin();
- myThread.initialize ();

A child Window is just like any other top-level window, but it automatically gets closed when the parent is closed and minimized when the parent is minimized. Such a Window is sometimes called a .

- Modeless Dialog PG # 124
- Inherited Window
- Super Window
- Sibling Window

In .Net, a task that does not return a value is represented by the_____

.

- System.Threading.Tasks.Task<TResult> (it return value)
- System.Threading.Tasks.Task
- System.Threarding.Tasks.
- None of the given options

In TAP (Task-based Async Pattern)), progress is handled through an interface, which is passed to the asynchronous method a parameter.

- IProgress<T>
- Progress<T> (Action<T>)
- Iprogress (T)
- Progress<T>

In navigation Windows, the frames are more like a/an .

- HTML frame or iFrame Page #128
- .Net frame

- Java frame
- Image frame

_____keeps the navigation history in navigation based applications.

- Journal
- Frame
- Web browser
- Web page

URI stands for:

- Universal Resource Identifier
- Uniform Resource Identifier
- Uniform Resource Identification
- Universal Resource Identification

In Objective-C, which of the following statements can be used to display something in the "answer" field?

- [answerField:answer];
- [setTextanswer];
- [answerField setText:answer]; PG # 208
- [setText answeranswerField]

Which one of the following is used, if we want to add resources in Window?

- <windowResources></windowResources>
- <windowsResources></windowsResources>
- <window.Resources></window.Resources> PG #136
- <windows.Resources></windows.Resources>

Which of the following is used to set the view to default?

- NSCoder (NS Next Step)
- clearAll
- IB (Interface Builder) PG # 217
- Redraw

In context of data binding, when we want to apply both sorting and grouping together then the rule is that .

- Grouping will be applied before sorting
- Sorting will be applied before Grouping PG # 150
- Both shall be applied different properties
- None of the given

What is the word —Colorl in given below code? UIColor" (^) (Line*,int anotherArg)

- Return Type of Block
- Notation to specify that it is a block
- Name of Variable
- Block Variable PG # 222

If we assign an NSString to a possession for its possessionName, and then we release the string, it will be .

- Allocated
- Decreased
- Instance created
- Destroyed

_____helps us in provisioning ease of access to data source for data binding.

- Data Provider
- Interfaces
- Source
- Data Organizer

What is the purpose of given below code?
[self.view addSubview:imageView];

- To make sure that image is not scaled incorrectly
- To create the image View
- To set the image
- Add the image to this View controllers PG # 226

What is the purpose of given below code?
NSArray *folders NSSearchPathForDirectoriesInDomains(NSDocumentDirectory, NSUserDomaian Iask, YES);

- Get the document folder(s) PG # 226
- Create the folder
- Get the first folder
- Add the image to first folder

Which JQuery object is used with bind() function to pass data to an event handling function?

- Target
- Bind
- Data PG # 187
- Jobj

Which of the following technologies is not used in AJAX (Asynchronous JavaScript And XML)?

- DOM (Document object Model)
- DHTML (Dynamic Hyper Text Markup Language)
- Flash
- CSS (Cascading Style Sheets)

Which function is used to create cancel button event of dialog box_____.

- OnInitCancel()
- OnClickCancel()
- CancelClick()

- OnCancel()

Multi touch events are categorized into and_____.

- Touch events, touchup events
- Touchdown events, touchup events
- Advanced touch events, low-level manipulation events
- Basic touch events, higher-level manipulation events

Which of the following components generates an input Event?

- Printer
- Multi Touch
- Plotter
- Speaker

_____Using requires more overhead than_____ because of the extra tracking.

- StaticResource, DynamicResource
- DynamicResource, StaticResource PG # 137
- PermanentResource, TemporaryResource
- TemporaryResource, PermanentResource

We use "UIElement" property ClipToBounds= falsel when

- We want area child element don't cross the boundary of parent
- None of given
- We want area of child element is allowed to cross the boundary of parent PG # 97
- Parent area also increases on increasing of area of child element

_____is used to perform navigation.

- Session
- Hyperlink PG # 127
- Hypertext markup language code
- Internet protocol

To design a complex Interface, which of the following technique is best to achieve the required results?

- Panels composed in three panels
- Panels composed within panels
- Panels composed in two panels
- Panels composed in single panel

Which of the following is not a string format property throughout WPF?

- ContentStringFormat
- ItemStringFormat
- RowHeaderStringFormat
- StringFormat

: In multi touch events, a/an____ id is assigned to each individual event.

- Device

- Processor
- CPU
- Event

Commonly we have two types of custom command bindings named as .

- StartBindings and StopBindings
- EventBindings and InstanceBindings
- ButtonBindings and TextboxBindings
- KeyBindings and MouseBindings PG # 122

Which of the following is an example of tunnel key event?

- Key up
- Preview key entered
- Preview key down
- Key down

In context of data binding, _____contains the current item to get it synchronized with data Source.

- String
- Template
- View
- List

___and ____ are the two important properties of Binding object.

- Start, Destination
- Items, Selected
- Source, Path
- BindTo, BindFrom

Data binding is about tying together arbitrary .NET .

- Objects PG # 140
- Functions
- Properties
- Variables

_____supports the creation of applications that run directly in a web browser.

- WPF
- C/C++
- C#
- HTML

Which of the following operation cannot be performed by using a View?

- Grouping
- Filtering
- Sorting
- Searching PG # 146

To check that the user either pressed left Alt key or right Alt key, the_____ is used.

- IsKeyDown
- IsDown
- keyboardDevice.IsKeyDown PG # 113
- KeyStates.IsKeyDown

In _ browser app, you change"<TargetZone>Internet</TargetZone>" to this "<TargetZone>Custom</TargetZone>"

- Partial-trust
- Full-reject
- Partial-reject
- Full-trust

_____ provides the logic behind the "Back" and"Forward" buttons.

- Hyperlink
- Navigation Window
- IFrame
- Journal PG # 138

In multi touch events, when multiple fingers are touching simultaneously, these events get raised for each finger

- Independently
- Completely
- Partially
- Dependently

In a code segment, if the Visibility=‖Collapsed‖ then which of the following events are not generated?

- Key down Events
- Mouse Events PG # 113
- Routed Events
- Keyboard Events

A Window can spawn_____ number of additional Windows by instantiating a Window-derived Class and calling Show (...).

o Four

o Any PG # 124

o Six

o Five

Frame has a property used in enabling or disabling the bar.

- ShowsNavigationUI
- BlocknavigationUI
- NavigationUIVisibility PG # 129
- NavigationUIBlock

A _____receives keyboard events only if it has keyboard focus.

- Mouse
- Keyboard Controls
- Keyboard
- UIElement

To remove data binding between the source and the target, we can use function.

- ClearBinding PG # 151
- ResetBinding
- StopBinding
- RemoveBinding

A/An_____ screen is an image that appears while a game or program is loading.

- Opening
- Initial
- Splash
- Startup

We can perform sorting through View by using an object of class

- ViewOrder
- ViewDescription
- SortOrder
- SortDescription PG # 158

"Binding" technique binds two properties together and keeps a____open.

- Memory location
- Selection
- Choice
- Communication channel PG # 140

Which one of the following can be used to set dependency property values?

- Temporary resource
- Permanent resource
- Dynamic resource PG # 137
- Static resource

We use "GetDefaultView" method of_____ to get the default View.

- CollectionViewSource PG # 146
- DataSource
- ViewDescription
- ViewCollection

Question # 79: In case of HTML page navigation, you must use the_____ of "Navigate" that _____URI.

- Overload, rejects
- IFrame, rejects

- IFrame, accepts
- Overload, accepts

Question # 80: The Java programming language has a specific class for creating splash screens, called_____ .

- Java.awt.start
- Java.lang.splash
- Java.start.screen
- Java.awt.SplashScreen

In case of integrating Navigation to XBAP, "ShowNavigationUI" should be set to_____ in order to bypass integration.

- False
- True
- Null
- 0

Which of the followings are keyboard events?

- Key entered, key exist
- Key strike, key release
- Key pressed, key released
- Key down, key up PG # 113

To plug custom logic, you need to add a_____ to the element that will execute the command or any parent element.

- Execute command
- Helpcanexecute
- CommandBinding
- RoutedUlCommand

A class that implements the iCommand and supports bubbling just like a routed event is known as .

- RoutedUlCommand PG # 121
- Canexecute
- Executed command
- CanexecuteChanged

Which of the following is not true about task completion source?

- Provide exception handling facility
- Support result return facility
- Provide Continuation facility
- it is executable thing PG # 175

"JavaScript" _____ is available in web browser.

- Interpreter
- Compiler

- Linker
- Conjunction

The "Task Based Asynchronous pattern" method returns either a "Task" or a "Task<TResult>", based on whether the corresponding _____ method returns "void" or a type "TResult".

- Callback
- Return
- Synchronous
- Asynchronous

Which of the following C# Method reports a progress change?

- Finalize
- OnReport
- GetType
- GetHashCode

Threadpool is used to _____.

- To make easy the process of thread creation
- To make easy debugging process
- To save time of thread creation PG# 160
- To avoid complexity

Which of the following is not a part of "cancellation" task?

- The calling thread does forcibly end the task
- Notice and respond to the cancellation request in your user delegate
- Pass a cancellation token to your user delegate and optionally to the task instance
- Create and start a cancelable task

DOM is a _____ representation of data.

- Tree
- Graphical
- Object
- None of the given

Which of the following Object creates a cancellation token?

- OperationCanceledtoken
- OperationCanceled
- CancellationToken
- CancellationTokenSource PG#172

Wwhich of the following is not a "JQuery" filter?

- Even
- Odd
- Has
- Write PG#184

Which of the following Event property is used to show the distance (in pixels) of the mouse pointer from the left edge of the browser window?

- pageY
- pageX PG # 187
- ScreenX
- ScreenY

async and _____ keywords in C# are the heart of asynchronous programing.

- Return
- Await
- Wait
- String

Mode of binding is opposite to OneWay mode of binding.

- OneWay To source PG#153
- TwoWay
- One Time
- Two Time

_____ Can add/remove/change CSS properties based on input or mouse clicks.

- JS
- JQuery
- HTML
- None of the given option

JavaScript is main ____ scripting Language.

- Interpreter
- Browser
- Server
- Client

_____ solves JavaScript‖ complexity and browser incompatibilities.

- Jhtml
- RQuery
- JQuery PG#179
- J#

_____ is more than one thing happening at the same time.

- Cohesion
- Congruence
- Coherence
- Concurrency

Which of the following —Event —properties is used with _____key press event to determine the numeric code for the key that was pressed? .

- Page X

- Which PG#187
- Shift Key
- Target

Which of the following is correct way to temporarily stop execution of a thread object named as —myThread for 500 milisec?

- myThread.Sleep(0.50);
- myThread.Stop(0.05);
- myThread.Sleep(500);
- myThread.Stop(500);

HTML is a ____ helper function.

- RQuery
- Browser
- jQuery PG#184
- JS

Which of the following server(s) support —AJAX?

- Both SMTP and HTTP
- HTTP
- www
- SMTP

Why we use Alloc message?

- To create a class
- To create an instance
- To extend functions
- To inherent methods

Objective – c introduces messaging in c?

- Smalltalk style PG# 197
- Short session
- Group
- New Style

Threadpool create and reduce real threads using hillclimbing algo to

- To maximize CPU usage Pg#160
- To reduce the cost of thread creation
- To maximize memory utilization
- To minimize CPU usage

Which of the following is not handled by the Task Parallel Library (TPL) ?

- Partitioning of the work
- Progress report handling
- Scheduling of threads
- Scales the degree of concurrency

"Callback" method is used to ____ the operation.

- Terminate
- Pause
- Invoke
- Revoke

While dealing with "threads" in ".Net", one can avoid performance bottlenecks and enhance the overall responsiveness of his / her application by using programming.

- Multithreading programming
- Synchronous programming
- Parallel programming
- Asynchronous programming

____Interact with web page layout

- Java script
- HTML
- XML
- DOM

_____are high order functions that compose, combine, or otherwise modify functions in useful and interesting ways.

- Combinators
- None of the given
- Separators
- Modifiers

Which of these are defined as the model object?

- UILabel *questionField;
- NSMutableArray *questions@field;
- NSMutableArray *questions; PG # 205
- Question= 0;

Which of the following "Event" property is used to show the "distance (in pixels)" of the mouse pointer from top edge of the Monitor?

- ScreenY PG#187
- pageX
- pageY
- ScreenX

What is —nill like?

- Null Page # 197
- zero
- terminate
- move to new line

Which of the following "Event" property is used to show the "distance (in pixels)" of the mouse pointer from top edge of the browser window?

- pageY Page # 187
- pageX
- screenX
- screenY

Observe the following piece of code taken out from Main() function: Thread myThread = new Thread (Go); myThread.Strat(); myThread.Join(); What will be the effect of instruction myThread.Join()?

- Execution of myThread will be joined with existing running threads
- myThread will be executed after Main thread is completed
- Main thread execution will be suspended till completion of myThread
- Both Main thread and myThread can now share the data

What message is used to send to destroy the object?

- stop
- delete
- free
- release

What is NSMutableArray?

- Object
- Class Reference
- Method
- Group

What is the purpose of the following "JQuery" code? $(_#navbar a‘)

- Find all the element whose name is navbar and then find a descendent a
- Find all the element whose name is navbar and then find a ancestor a
- Find all the element whose ID is navbar and then find a descendent a
- Find all the element whose ID is navbar and then find a ancestor a

The pairing of labels and arguments is an important feature of_____.

- C++
- Scripts
- Objective-C page # 197
- PHP

Web servers receive request and responds as _____.

- Html only
- Plan Text only
- JSON only
- Html, plain text and JSON Page #192

Which of the following class supports data parallelism in "Task Parallel Library"?

- System.Threading.Tasks
- System.Task.Parallel
- System.threading.Task.Parallel
- System.Task.Threading.Parallel

Which of the following "Event" property is used to show the "distance (in pixels)" of the mouse pointer from left edge of the Monitor?

- pageX
- pageY
- ScreenY
- ScreenX PG# 187

Which of the following response show file not found error?

- 404
- 500
- 200
- 304