

BY CHARA ZERIHUN

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## C++ program to print all odd numbers from 1 to 100 using a for loop:

```
#include <iostream>
using namespace std;

int main()
{
    for (int i = 1; i <= 100; i++)
    {
        if (i % 2 == 1)
        {
            cout << i << " ";
        }
    }

    return 0;
}

// output of this program is:
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39
41 43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75
77 79 81 83 85 87 89 91 93 95 97 99
```

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## C++ program to print all odd numbers from 1 to 100 using a while loop:

```
#include <iostream>
using namespace std;

int main()
{
    int i = 1;

    while (i <= 100)
    {
        if (i % 2 == 1)
        {
            cout << i << " ";
        }
        i++;
    }

    return 0;
}

// output of this program is:
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39
41 43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75
77 79 81 83 85 87 89 91 93 95 97 99
```

## Using a do-while loop:

```
#include <iostream>
using namespace std;

int main()
{
    int i = 1;

    do
    {
        if (i % 2 == 1)
        {
            cout << i << " ";
        }
        i++;
    } while (i <= 100);

    return 0;
}

//output of this program is:
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39
41 43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75
77 79 81 83 85 87 89 91 93 95 97 99
```

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## C++ program for Celsius to Fahrenheit and Fahrenheit to Celsius conversion

```
#include<iostream>
using namespace std;
int main()
{
float fahrenheit,celsuis;
int choice;
cout<<" Enter 1: fahrenheit to celsuis \n Enter 2: celsuis to fahrenheit \n";
cin>>choice;
if(choice==1)
{
cout<<"Enter fahrenheit value\n";
cin>>fahrenheit;
celsuis = (fahrenheit - 32)*0.5556;
cout<<" it is "<<celsuis<<" degree celsuis"<<endl;
}
else if(choice==2)
{
cout<<"enter the celsuis value \n";
cin>>celsuis;
fahrenheit = (1.8*celsuis)+32;
cout<<"it is "<<fahrenheit<<" degree Fahrenheit"<<endl;
} else
cout<<"wrong choice";
return 0;
}
```

### OUTPUT OF THIS PROGRAM IS:

```
Enter 1: fahrenheit to celsuis
Enter 2: celsuis to fahrenheit
1
Enter fahrenheit value
45
it is 7.2228 degree celsuis
```

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## C++ tutorial to find the largest of two user input numbers

```
#include <iostream>
using namespace std;
int main()
{
    int Num1;
    int Num2;
    cout << "Enter the first number : ";
    cin >> Num1;
    cout << "Enter the second number : ";
    cin >> Num2;
    if (Num1 > Num2)
    {
        cout << Num1 << " is greater than " << Num2<<endl;
    }
    else
    {
        cout << Num2 << " is greater than " << Num1<<endl;
    }
    return 0;
}
```

### OUTPUT OF THIS PROGRAM IS:

**Enter the first number : 12**

**Enter the second number : 54**

**54 is greater than 12**

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## Print Half-Pyramid Pattern of Stars (\*)

```
#include<iostream>
using namespace std;
int main()
{
    int i, j;
    for(i=0; i<6; i++)
    {
        for(j=0; j<=i; j++)
            cout<<"* ";
        cout<<endl;
    }
    cout<<endl;
    return 0;
}
```

OUTPUT OF THIS PROGRAM IS:

```
*
* *
* * *
* * * *
* * * * *
* * * * * *
```

## Print Inverted Half-Pyramid Pattern using Stars (\*)

```
#include<iostream>
using namespace std;
int main()
{
    int i, j;
    for(i=0; i<6; i++)
    {
        for(j=i; j<6; j++)
            cout<<"* ";
        cout<<endl;
    }
    cout<<endl;
    return 0;
}
```

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### OUTPUT OF THIS PROGRAM IS:

```
* * * * *
* * * * *
* * * *
* * *
* *
*
*
```

## Print Full Pyramid Pattern of Stars (\*)

```
#include<iostream>

using namespace std;
int main()
{ int i,j,rows,space;
  cout<<"enter the no of rows: ";
  cin>>rows;
  for(i=1;i<=rows;i++)
  {
    for(space=rows;space>i;space--)
      cout<<" ";
    for(j=0;j<i;j++)
      cout<<"* ";
    cout<<endl;
  }
  return 0;
}
```

### OUTPUT OF THIS PROGRAM IS:

enter the no of rows: 5

```
  *
 * *
* * *
* * * *
* * * * *
```

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## Print inverted of Full Pyramid Pattern of Stars (\*)

```
#include<iostream>

using namespace std;
int main()
{ int i,j,rows,space;
  cout<<"enter the no of rows: ";
  cin>>rows;
  for(i=rows;i>=1;i--)
  {
    for(space=i;space<rows;space++)
      cout<<" ";
    for(j=1;j<=i;j++)
      cout<<"* ";
    cout<<endl;
  }
  return 0;
}
```

OUTPUT OF THIS PROGRAM IS:

enter the no of rows: 5

\* \* \* \* \*

\* \* \* \*

\* \* \*

\* \*

\*

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