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John Tutorial

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PART-I: Choose the best answer for the following questions [1pt. Each]

1. Consider the following python code

```
Lst=[0,2,10,6,3,-4]
Lst.reverse()
Lst.pop()
Lst.insert(1,3)
print Lst
```

- A. $[0, 2, 3, 10, 6, 3]$

- B. $[0, 2, 10, 6, 3, 3]$

- C.
- $[-4, 3, 3, 6, 10, 2]$

- D.
- $[3, -4, 3, 6, 10, 2]$

2. Which one of the following modes (parameter) is used to write onto a file?

- A.
- ^{aa}
- a
- ^{aa}

- B.
- ⁴⁰
- W
- ³⁹

- C.
- ¹³¹
- I
- ⁻

- D. B and C

- E. A and B

3. Consider the following python code?

```
a= "Engineering"
b= "Engineering"
b+=a
print a is b
```

- A. True

- B. False

4. Consider the following python code

```
tp= (0, 2, 3, 4, 45, 55)
print tp[-5] + tp[5]
```

- A. 45

- B. 55

- C. 57

- D. 47

5. Which one of the following is the correct definition of a tuple?

- A. $A = \{1, 2, 3, 4, 5\}$

- B. $A = \{1, 2, 3, 4, 5\}$

- C. $A=(1,2,3,4,5)$

- D.
- $A = \{1, 2, 3, 4, 5\}$

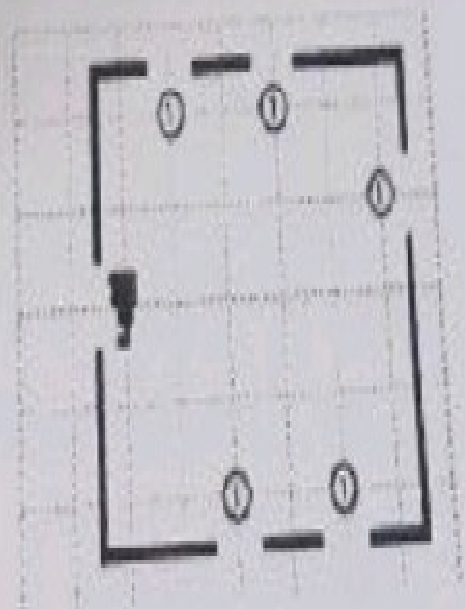
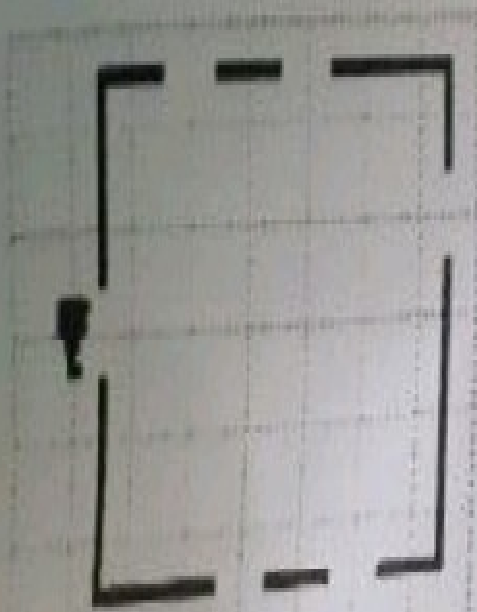
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2. Write a python program which creates "course.txt" file and then write your four subjects that you are registered for this semester.

2.1 append one more subject to the existing file [4 Pts]

3. Write a python program that reads python dictionary keys and values from the keyboard and sort its element using a key value? [3 Pts]

4. Write python a program that displays the world in the right hand side? [3 Pts]



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Problem 4 [3 pts]

```
for i in range(6):  
    if not(i % 2 == 0):  
        print("#" * (5-i))  
    else:  
        print("@" * (5-i))
```

Problem 5 [2 pts]

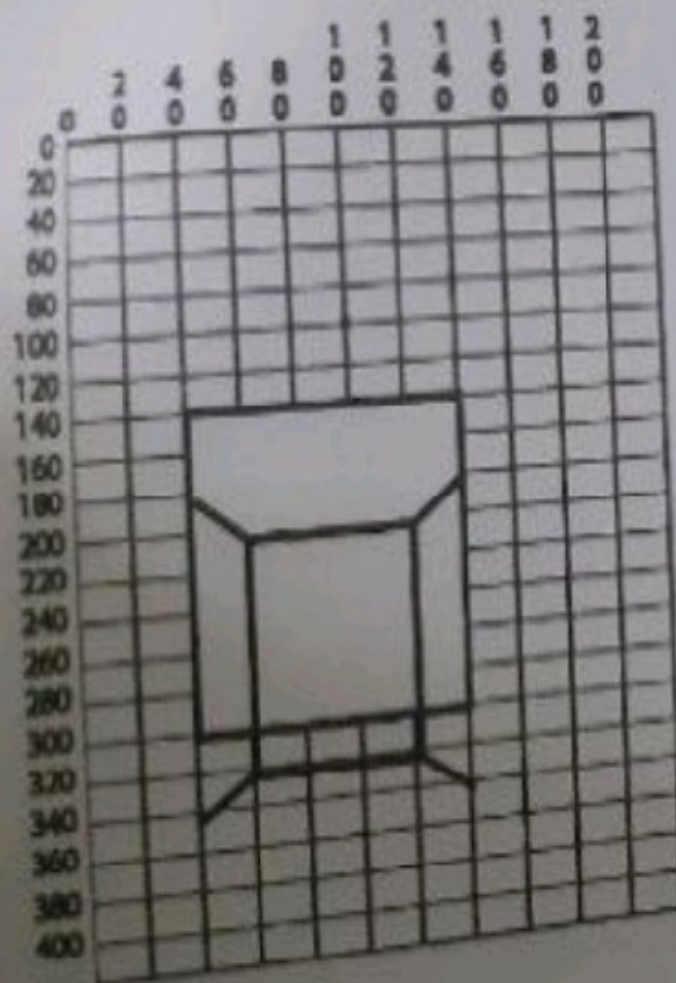
```
x = 2 + 3 ** 3 * 2 * 2 ** 4 / 2  
print x
```

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PART - IV: Write a python program for the following questions?

1. Write a python program that displays the following object. Use the possible method to optimize the code? [3 Pts]



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- Short and precise answer for the following questions [6 pts]
1. Explain the difference and similarity between *string*, *tuple*, *list* and *dictionary*. [2 pts.]
 2. Explain what function is and discuss its advantages? [2 pts]
 3. Explain in details why we use file? [2 pts.]

PART – III:- Write the output of the following python program on the spa

Problem 1 [4 pts]

```
s1="Automatic repair"
s2="troubleshooting"
s1+=s2
s3= s1[6:10] +s2[-6:-2]
print s3
print len(s3)
s4=s3[: -4:1]
print s4
print "tic" in s3
```

Problem 2 [3pts]

```
from math import *
def pre(a,b=2,c=3):
    x=abs(a*b**c)
    print x
pre(3)
pre(1,4)
pre(2,1,-2)
```

Problem 3 [4 pts]

```
x=[-7,22,90,25]
x.sort(reverse =True)
print x
x.insert(2,3)
print x[2:5]
print x
x[0:3]=[4,9,8]
print x
```