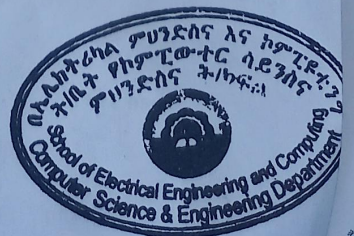


- ```
Lst=[0,2,10,6,3,-4]
Lst.reverse()
Lst.pop()
Lst.insert(1,3)
print Lst
```

- 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. "a"  
B. "w"  
C. "r"  
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}



**PART-II: Write short and precise answer for the following questions[6 pts]:**

1. Explain the difference and similarity between *string*, *tuple*, *list* and *dictionary* with example?  
[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 space provided

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
```



**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]

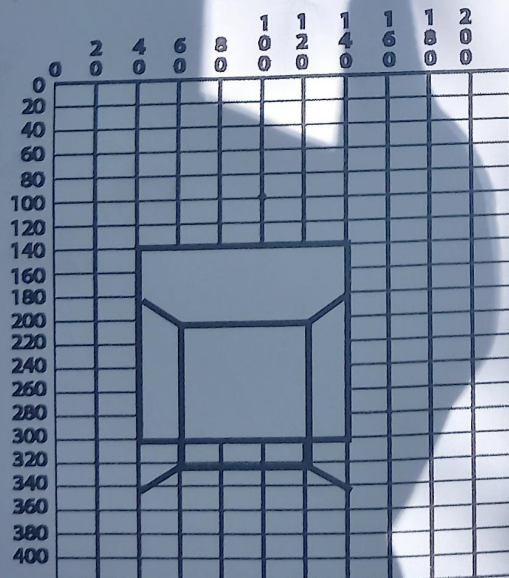
```

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

```

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

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



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]

