

1. Study the following program and select the possible output(s) from the options (i) to (iv) following it. Also, write the maximum and the minimum values that can be assigned to the variable Y.

```
import random
X= random.random()
Y= random.randint(0,4)
print int(X), ":", Y+int(X)
```

- i) 0 : 0  
ii) 1 : 6  
iii) 2 : 4  
iv) 0 : 3
2. Write a program that creates a GK quiz consisting of any five questions of your choice. The questions should be displayed randomly. Create a user defined function score() to calculate the score of the quiz and another user defined function remark (score value) that accepts the final score to display remarks as follows:

Marks	Remarks
5	Outstanding
4	Excellent
3	Good
2	Read more to score more
1	Needs to take interest
0	General knowledge will always help you. Take it seriously.

3. Study the following program and select the possible output(s) from the options (i) to (iv) following it. Also, write the maximum and the minimum values that can be assigned to the variable COUNT.

```
import random
TEXT="CBSEONLINE"
COUNT=random.randint(0,3)
C=9
while TEXT[C] !='L':
    print(TEXT[C]+TEXT[COUNT]+' ',end=" ")
    COUNT=COUNT+1
    C=C-1
```

- i) EC\* NB\* IS\*    ii) NS\* IE\* LO\*    iii) ES\* NE\* IO\*    iv) LE\* NO\* ON\*

4. ABC School has allotted unique token IDs from (1 to 600) to all the parents for facilitating a lucky draw on the day of their Annual day function. The winner would receive a special prize. Write a program using Python that helps to automate the task.(Hint: use random module)

5. What possible outputs(s) are expected to be displayed on screen at the time of execution of the program from the following code? Also specify the maximum values that can be assigned to each of the variables FROM and TO.

```
import random
AR=[20,30,40,50,60,70];
FROM=random.randint(1,3)
TO=random.randint(2,4)
for K in range(FROM,TO+1):
    print (AR[K],end="#")
```

(i) 10#40#70#

(ii) 30#40#50#

(iii) 50#60#70#

(iv) 40#50#70#