

## PROGRAMMING FUNDAMENTAL

### LAB SESSION 12

#### INTRODUCTION TO RANDOM MODULE

##### EXERCISE:

Q.1 Create a list of different Cities of Pakistan and by using random module Shuffle that list.

```
2 from random import *
3 Pakistan=['karachi','lahore','islamabad','quetta','sialkot','Hyderabad','Multan']
4 shuffle(Pakistan)
5 print(Pakistan)
```

##### OUTPUT:

```
"C:\Users\admin\PycharmProjects\Programming Labs\venv\Scripts\python.exe" "C:/Users/admin/PycharmProjects/P
['karachi', 'islamabad', 'Hyderabad', 'quetta', 'lahore', 'Multan', 'sialkot']
```

```
Process finished with exit code 0
```

Q.2 Define a list, consisting of names of different students, who are applying for a scholarship, pop an item from that list and transfer all items in a new list and apply sample method of random module to give scholarship to two students of new list.

##### SOURCE CODE:

```
1 from random import *
2 scholarship=['sana','areeba','sara','sameera','Zain','Hammad']
3 NewList=[]
4 scholarship.pop()
5 print(scholarship, "list after pop one item")
6 NewList.extend(scholarship)
7 samp=sample(NewList,2)
8 print(samp)
```

## OUTPUT:

```
LLABTASK5.PY x
"C:\Users\admin\PycharmProjects\Programming Labs\venv\Scripts\python.exe" "C:/Users/admin/PycharmProjects/Prog
['sana', 'areeba', 'sara', 'sameera', 'Zain'] list after pop one item
['sana', 'sameera']

Process finished with exit code 0
```

Q.3 Define two lists dice1 and dice2, holding numbers from 1 to 6 , Design a python program that start playing with two dices for two players.

## SOURCE CODE:

```
1 import random
2
3 dice1=[1,2,3,4,5,6]
4 dice2=[1,2,3,4,5,6]
5 for i in range(len(dice1)):
6     player1 = random.choice(dice1)
7     print("score pf player one is: ", player1)
8     for i in range(len(dice2)):
9         player2 = random.choice(dice2)
10    print("score of player 2 is: ",player2)
11    if player1>player2:
12        print("PLAYER ONE WINS!!")
13    elif player1<player2:
14        print('PLAYER TWO WINS!!')
15    else:
16        print('THE GAME HAS BEEN DRAWN!!!')
17
```

## OUTPUT:

```
"C:\Users\admin\PycharmProjects\Programming Labs\venv\Scripts\python.exe" "C:/Users/admin/PycharmProjects/Prog
score pf player one is:  6
score of player 2 is:  2
PLAYER ONE WINS!!

Process finished with exit code 0
```