LAB TASK 12

PROGRAMMING EXERCISES:

Question 1.

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

Program:

```
import random
cities=["Karachi","Lahore","Islamabad","Multan","Rawalpindi"]
random.shuffle(cities)
print(cities)
```

Result:

```
['Multan', 'Karachi', 'Lahore', 'Rawalpindi', 'Islamabad']
```

Question 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.

Program:

```
import random
students_applied=["sara","ali","zara","ahmed","hassan"]
students_applied.pop()
std=students_applied.copy()
students_selected=random.sample(std,2)
print("The students selected for scholarship")
for i in range(len(students_selected)):
    print(str(i+1)+".",students_selected[i].title())
```

Result:

```
The students selected for scholarship
1. Zara
2. Ali
```

Question 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.

Program:

```
import random
dice1=[1,2,3,4,5,6]
dice2=[1,2,3,4,5,6]
rang=int(input("How many times you want to roll dice: "))
for i in range(rang):
    print("Entry #",i+1,":")
    print("Player 1 got:",random.choice(dice1))
    print("Player 2 got:",random.choice(dice2))
```

Result:

```
How many times you want to roll dice: 4
Entry # 1 :
Player 1 got: 6
Player 2 got: 1
Entry # 2 :
Player 1 got: 6
Player 2 got: 3
Entry # 3 :
Player 1 got: 4
Player 2 got: 6
Entry # 4 :
Player 1 got: 5
Player 2 got: 2
```