

PROGRAMMING EXERCISE

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

Input:

```
from random import*
cities=['Karachi','Hyderabad','Multan','Islamabad','Lahore','Quetta']
shuffle(cities)
print(cities)
```

Output:

['Karachi', 'Islamabad', 'Quetta', 'Lahore', 'Hyderabad', 'Multan']



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.

Input:

```
from random import*
student1=[]
studends=['Taha','Rehan','Kabeer','Mateen','Sohaib','Abdullah']
r=studends.pop()
print('pop Item from list is ',r)
for student in studends:
    student1.append(student)
print('These Students get Scholarship',sample(student1,2))
```

Output:

pop Item from list is Abdullah

These Students get Scholarship ['Sohaib', 'Mateen']



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.

Input:

```
from random import*
dice1=[1,2,3,4,5,6]
dice2=[1,2,3,4,5,6]
for i in range(5):
    print('player one
get',choice(dice1),'and',choice(dice2),'To Go For')
    for j in range(1):
        print('player Two get', choice(dice1), 'and',
choice(dice2), 'To Go For')
```

Output:

player one get 5 and 6 To Go For

player Two get 4 and 1 To Go For

player one get 4 and 5 To Go For

player Two get 2 and 2 To Go For

player one get 4 and 2 To Go For

player Two get 6 and 3 To Go For

player one get 1 and 1 To Go For

player Two get 5 and 2 To Go For

player one get 4 and 2 To Go For

player Two get 3 and 3 To Go For

