**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