Experiment No. 12

***Exercise:***

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

**Input:**

import random2  
l1=["karachi","lahore","islamabad","multan","hyderabad"]  
random2.shuffle(l1)  
print(l1)

**Output:**

['lahore', 'hyderabad', 'multan', 'islamabad', 'karachi']

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:**

import random2  
names=["maha","mavia","alishba","kinza","hasham"]  
names.pop()  
names1=[]  
names1.extend(names)  
names1=random2.sample(names1,2)  
print("scholarship to two students",names1)

**Output:**

scholarship to two students ['kinza', 'mavia']

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:**

import random2  
dice1=[1,2,3,4,5,6]  
dice2=[1,2,3,4,5,6]  
for i in range(1,7):  
 print("player1 from dice1:",random2.choice(dice1))  
 print("player2 from dice2:",random2.choice(dice2))

**Output:**

player1 from dice1: 5

player2 from dice2: 3

player1 from dice1: 1

player2 from dice2: 4

player1 from dice1: 3

player2 from dice2: 2

player1 from dice1: 1

player2 from dice2: 1

player1 from dice1: 2

player2 from dice2: 3

player1 from dice1: 1

player2 from dice2: 2