MODULE – 3 (COLLECTIONS, FUNCTIONS AND MODULES)

Q:1 What is list?

Ans :List is a collection of data with different data types.

Q:5 How will you compare two lists?

Two methods are there to compare lists.

1)Set Method

```
l1=[1,2,3,4,5]

l2=[1,2,3,4,5]

a=set(l1)

b=set(l2)

if a==b:

    print("List 1 and 2 are equal")

else:

    print("List 1 and 2 are not equal)
```

2)Sort Method

```
l1=[1,2,3,4,5]

l2=[1,2,3,4,5]

l1.sort()

l2.sort()

if l1==l2:

    print("List 1 and 2 are equal")

else:

    print("List 1 and 2 are not equal)
```

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Q:52 How Many Basic Types Of Functions Are Available In Python?

Ans: In Basic there are two types of fuctions.

1)Library functions

2)User Defined Functions

Q:53 How can you pick a random item from a list or tuple?

Ans:At start point user needs to write import random.

After the list or tuple “ramdom.choice ()”method will randomly generate element from the list or tuple.

Q:54 How can you pick a random item from a range?

Ans:By using random.randint method user can pick random item from a range.

Syntax is x=random.randint(1,50+1)

Above syntax will pick numbers randomly between 1 to 50.

Q:55 How can you get a random number in python?

Ans:By using randint method:

Syntax:

Import random

n=random.randint(1,101)

print(n)

To include outer ranges :

Import random

n=random.ranrange(0,100) \\ print(n)

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Q:56 How will you set the starting value in generating random numbers?

Ans :By using random.seed() method user can generate random numbers.

```
Import random

for i in range(2):

        random.seed(5)

        print(random.randint(1,1000))
```

Q:57 How will you randomizes the items of a list in place?

Ans : By using random.shuffle user can randomize items of a list.

```
Import random

List=[10,20,30,40]

random.shuffle(List)

print(List)
```