

Module – 3 (Collections, functions and Modules)

1. What is List? How will you reverse a list?

- List is collection in python, which store the data into sequence.
- List Using the Reversed () and Reverse () Built-In Function.

2. How will you remove last object from a list?

Suppose list1 is [2, 33, 222, 14, and 25], what is list1 [-1]?

- Use the pop () method.
- The last element in the given list.

3. Differentiate between append () and extend () methods?

- The append () method add a single element to the end of the list.
- The extend () method Adds multiple elements to the end of a list.

4. How will you compare two lists?

19.What is tuple? Difference between list and tuple.

- Tuple is one type of data type that's lets us create immutable sequence.

list	tuple
1.mutable	1.immutable
2.created using square bracket[]	2.created using round bracket()
3.not hashable	3.hashable

53. How Many Basic Types Of Functions Are Available In Python?

- In Basic there are two types of factions.
 1. Library functions
 2. User Defined Functions

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54. How can you pick a random item from a list or tuple?

- At start point user needs to write import random.
- After the list or tuple “random.choice ()” method will randomly generate element from the list or tuple.

55. How can you pick a random item from a range?

- 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.

56. How can you get a random number in python?

- using randint method:

Syntax:

```
Import random
```

```
n=random.randint(1,104)
```

```
print(n)
```

To include outer ranges :

```
Import random
```

```
n=random.ranrange(0,100)
```

```
print(n)
```

57. How will you set the starting value in generating random numbers?

- using random.seed() method user can generate random numbers.

```
Import random
```

```
for i in range(2):
```

```
random.seed(5)
```

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

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58. How will you randomizes the items of a list in place?

→ using random. Shuffle user can randomize items of a list.

```
Import random
```

```
List=[10,20,30,40]
```

```
random. Shuffle(List)
```

```
print(List)
```