Ques. What is List?

- Lists are used to store multiple items in a single variable.
- List items are **ordered**, **changeable**, and **allow duplicate** values.
- In Python lists are written with **square brackets[]**, separated by commas.
- The list is **changeable**, meaning that we can change, add, and remove items in a list after it has been created.
- list Allow Duplicates values. **Ex:-** list = ["apple", "banana", "cherry", "apple", "cherry"]
- List items can be of any data type. **Ex:-** list = ["abc", 34, True, 40, "male"]

```python
my_list = ["apple", "banana", "cherry", "banana"]
my_list = [1, "Hello", 3.4]
my_list = ["mouse", [8, 4, 6], ['a']]   # A list can also have another list as
                                        # an item. This is called a nested list.

print(my_list)
```

Ques. List Length

- use the len() function:

```python
thislist = ["apple", "banana", "cherry"]
print(len(thislist))

Output:- 3
```

Ques. How to Check if Item Exists?

```python
thislist = ["apple", "banana", "cherry"]
if "apple" in thislist:
  print("Yes, 'apple' is in the fruits list")

Output:- Yes, 'apple' is in the fruits list
```