```
my_list = [10, 20, 30, 40, 50]
print("List:", my_list)
             List: [10, 20, 30, 40, 50]
In [3]: user_input = int(input("Enter a value to add in list: "))
    my_list.append(user_input)
    print("List after appending the user input value:", my_list)
             Enter a value to add in list: 25
List after appending the user input value: [10, 20, 30, 40, 50, 25]
In [4]: value_to_check = int(input("Enter a value to check if it is in the list: "))
if value_to_check in my list:
    print(f"(value_to_check) is in the list.")
else:
                  print(f"{value_to_check} is not in the list.")
             Enter a value to check if it is in the list: 40 40 is in the list.
In [5]: old_value = int(input("Enter the value to be updated: "))
new_value = int(input("Enter the new value: "))
             if old_value in my_list:
    index = my_list.index(old_value)
    my_list[index] = new_value
    print(f*(old_value) has been updated to {new_value} in the list. Now the list is {my_list}*)
else:
                 print(f"(old_value) is not in the list.")
             Enter the value to be updated: 30
             Enter the new value: 35
30 has been updated to 35 in the list. Now the list is [10, 20, 35, 40, 50, 25]
In [6]: value_to_remove = int(input("Enter a value to remove from the list: "))
             if value to remove in my list:
    my_list.remove(value_to_remove)
    print(f"{value_to_remove} has been removed from the list. Now the list is {my_list}")
             else:
                 print(f"{value_to_remove} is not in the list.")
             Enter a value to remove from the list: 50 50 has been removed from the list. Now the list is [10, 20, 35, 40, 25]
```

In [2]: # Data Analysis with Python Week - 1 Task
# Data structures in python

```
my_dict = {
    "name": "Mahendra Singh Dhoni",
    "age": 42,
    "city": "Ranchi",
    "international cups":(2007,2011),
    "jpl cups":5
}
print("Dictionary:", my_dict,"\n")
Dictionary: {'name': 'Mahendra Singh Dhoni', 'age': 42, 'city': 'Ranchi', 'international cups': (2007, 2011), 'ipl cups': 5}

In [14]: my_dict["nickname"] = "Thala"
print("Ms Dhoni", my_dict)

Ms Dhoni: {'name': 'Mahendra Singh Dhoni', 'age': 42, 'city': 'Ranchi', 'international cups': (2007, 2011), 'ipl cups': 5, 'nickname': 'Thala')

In [15]: name = my_dict["name"]
print("Name:", name)

Name: Mahendra Singh Dhoni

In [16]: my_dict["city"] = "Ranchi, India"
print("lictionary after updating city: ('name': 'Mahendra Singh Dhoni', 'age': 42, 'city': 'Ranchi, India', 'international cups': (2007, 2011), 'ipl cups': 5, 'nickname': 'Thala')

Dictionary after updating city: ('name': 'Mahendra Singh Dhoni', 'age': 42, 'city': 'Ranchi, India', 'international cups': (2007, 2011), 'ipl cups': 5, 'nickname': 'Thala')
```

In [13]: #Dictionary

```
print(my_tuple)
                   (7, 18, 33, 45, 93)
 In [5]: no_1 = my_tuple[1]
    print("The value at index 1 is:", no_1)
                   The value at index 1 is: 18
In [11]: new_value = int(input("enter a value to add"))
my_tuple = my_tuple + (new_value,)
                  print(my_tuple)
                  enter a value to add12 (7, 18, 33, 45, 93, 12)
In [12]: my_list_tuple=list(my_tuple)
    print(my_list_tuple)
                   [7, 18, 33, 45, 93, 12]
In [14]: delete_value=int(input("enter a value to delete"))
if delete_value in my_list_tuple:
    my_list_tuple.remove(delete_value)
    print(f"Value (delete_value) deleted from the list")
    my_tuple = tuple(my_list_tuple)
    print("Tuple after deleting the value:", new_tuple)
else:
                       print(f"Value {delete_value} not found in the tuple")
                   enter a value to delete99
Value 99 not found in the tuple
In [16]: old_value = int(input("enter value to be updated"))
new_value = int(input("enter value to update"))
                  new value = int(input('enter value to update'))
if old_value in my_list_tuple:
   index = my_list_tuple.index(old_value)
   my_list_tuple[index] = new value
   my_tuple = tuple(my_list_tuple)
   print(f*List_after_updating_{old_value}) to {new_value}:", my_tuple)
                   else:
                      print(f"{old_value} is not in the list.")
                   enter value to be updated33 enter value to update9
```

In [1]: #Tuple my\_tuple=(7,18,33,45,93)

List after updating 33 to 9: (7, 18, 9, 45, 93, 12)