```
In [1]: #week 01 task
                my_friend = {
    "name": "Prnvi",
                    "age": 19,
                    "city": "Guntur",
                print("Dictionary:", my_friend,"\n")
                Dictionary: {'name': 'Prnvi', 'age': 19, 'city': 'Guntur'}
        In [2]: my_friend["Study"] = "Btech"
                print("Prnvi:", my_friend)
                Prnvi: {'name': 'Prnvi', 'age': 19, 'city': 'Guntur', 'Study': 'Btech'}
        In [3]: name = my_friend["name"]
                print("Name:", name)
                Name: Prnvi
        In [4]: my_friend["city"] = "Guntur, India"
                print("Dictionary after updating city:", my_friend)
                Dictionary after updating city: {'name': 'Prnvi', 'age': 19, 'city': 'Guntur, India', 'Study': 'Btech'}
     In [5]: #week 01 task
              numbers = [1,2,3,4]
              print("List:", numbers)
              List: [1, 2, 3, 4]
     In [6]: new_number = int(input("Enter a value to add in list: "))
              numbers.append(user_input)
              print("List after appending the user input value:", my_list)
              Enter a value to add in list: 5
              List after appending the user input value: [1, 2, 3, 4, 5]
     In [7]: value_to_check = int(input("Enter a value to check if it is in the list: "))
              if value_to_check in numbers:
    print(f"{value_to_check} is in the list.")
                  print(f"{value_to_check} is not in the list.")
              Enter a value to check if it is in the list: 2
              2 is in the list.
In [9]: old_num = int(input("Enter the value to be updated: "))
         new_num = int(input("Enter the new value: "))
         if old_num in numbers:
             index = numbers.index(old_num)
             numbers[index] = new_num
             print(f"{old_num} has been updated to {new_num} in the list. Now the list is {numbers}")
         else:
             print(f"{old_num} is not in the list.")
         Enter the value to be updated: 2
         Enter the new value: 3
         2 has been updated to 3 in the list. Now the list is [1, 3, 3, 4, 5]
[n [10]: value_to_remove = int(input("Enter a value to remove from the list: "))
         if value_to_remove in numbers:
             numbers.remove(value_to_remove)
             print(f"{value_to_remove} has been removed from the list. Now the list is {numbers}")
         else:
             print(f"{value_to_remove} is not in the list.")
         Enter a value to remove from the list: 3
         3 has been removed from the list. Now the list is [1, 3, 4, 5]
```

```
In [8]: #week 01 task
          my_set = \{10, 20, 30, 40, 50\}
          print("Set:", my_set)
          Set: {50, 20, 40, 10, 30}
 In [9]: my_set.add(60)
          print("Set after adding:", my_set)
          Set after adding: {50, 20, 40, 10, 60, 30}
 In [10]: my_set.remove(30)
          print("Set after removing:", my_set)
          Set after removing: {50, 20, 40, 10, 60}
 In [11]: another_set = {40, 50, 60, 70, 80}
 In [12]: union_set = my_set.union(another_set)
          print("Union of my_set and another_set:", union_set)
          Union of my_set and another_set: {70, 40, 10, 80, 50, 20, 60}
In [13]: intersection_set = my_set.intersection(another_set)
          print("Intersection of my_set and another_set:", intersection_set)
          Intersection of my_set and another_set: {40, 50, 60}
    In [14]: difference_set = my_set.difference(another_set)
             print("Difference between my_set and another_set:", difference_set)
             Difference between my_set and another_set: {10, 20}
 In [1]: #week 01 task
         my_tuple=(7,18,33,45,93)
         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"))
              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

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