**Assignment 3 :LIST, TUPLE, SETS, Dictionaries**

**LIST**

* 1. Write a program for demonstration of List using following functions - :

Create a list as per needed

* + 1. Create a list and display each on single line using looping statement.
    2. Initialize the first list to second list.
    3. Access the specific element of list from user entered position.
    4. Delete the specific elements of from user entered position and elements.
    5. Concatenate the first list to second list.
    6. Repeats a list from user entered times.
    7. Operates the all membership operators on list.
    8. Perform the slicing operation on the list – [:n],[n:],[:],[n:m],[:-n],[-n:]
    9. Compere the list and perform the appropriate all results.
    10. Write a program for List comprehension
    11. Use following in built function –
        1. append()
        2. strip()
        3. len()

iv. insert()

1. extend()
2. sort()
3. remove()
4. reverse()
5. pop())
   * 1. Create user defined function for list –
        1. Count the number of elements.
        2. Sort the list
        3. Reverse the list

**TUPLE**

* 1. Write a program for demonstration of tuple using following functions - : Create a tuple as per needed.
     1. Create a tuple and display each elements on single line.
     2. Access the specific elements from user entered position.
     3. Search the specific elements and return the position if elements is found.
     4. Try to modify tuple. If tuple is not modify then give the appropriate message.
     5. Remove the specific elements from user and display reaming elements on single line each.
     6. Perform the following in built function on tuple –
        1. cmp()
        2. len()
        3. max()
        4. tuple()

vi. type()

# SET and Dictionary

* 1. Demonstrate all set operation .
  2. Demonstrate following dictionary operations –
     1. Create dictionary.
     2. Access the elements from dictionary
     3. Traversing, Appending, Updating and deleting elements.
     4. Appending element to dictionary
  3. Use Dictionary function - :\
     1. cmp()
     2. len()
     3. clear()
     4. get()
     5. has\_key()
     6. values()
     7. items()
     8. key()
     9. update()
     10. values()
     11. items()
     12. key()
     13. update()