**Assignment - 4**

* **Need to submit the assignment within three days.**
* **Create a document with program code and screenshot for every output. Save the document with your ID number. Don’t copy from others**.

**List Assignment**

1. Write a program that finds the sum of all the numbers in a list using while loop
2. Write a program that finds sum of all even numbers in a list
3. Write a program that reverse a list using a loop
4. Write a program to find whether a particular element is present in the list using a loop
5. Write a program that counts the number of times a value appears in the list. Use a loop
6. Write a program that creates a list of numbers from 1-50 that is either divisible by 3 or divisible by 6.
7. Create a list with a given size (minimum 10) of the list. Add the elements to the list of integer type elements with a combination of negative and positive.
   1. Print the elements
   2. Print the size of the list
   3. Print first and last element
   4. print duplicate elements in a list
   5. Print last 3 elements
   6. Print entire list except last 3
   7. Update any index value with an user given element
   8. Update 2 to 5 indexes with 100
   9. print the updated list and new length of the list
   10. Remove any element given by user
   11. Delete elements from 3 to 6 locations
   12. print the index of a element given by user
   13. check the list size if the size of the list is less than 10 then add remaining elements
   14. print perfect elements from a list
   15. Update all the list elements with character or string

**Tuple Assignment**

1. Write a Python program to create a tuple with different data types and print one item.
2. Write a Python program to unpack a tuple in several variables.
3. Write a Python program to add an item in a tuple. Write the output clearly?
4. Write a Python program to convert a tuple to a string.
5. Write a Python program to get the 4th element and 4th element from last of a tuple.
6. Write a Python program to find the repeated items of a tuple.
7. Write a Python program to check whether an element exists within a tuple.
8. Write a Python program to convert a list to a tuple.
9. Write a Python program to remove an item from a tuple.
10. Write a Python program to slice a tuple.
11. Write a Python program to find the index of an item of a tuple.
12. Write a Python program to find the length of a tuple.
13. Write a Python program to reverse a tuple.
14. Write a Python program to replace last value of tuples in a list.   
    Sample list: [(10, 20, 40), (40, 50, 60), (70, 80, 90)]  
    Expected Output: [(10, 20, 100), (40, 50, 100), (70, 80, 100)]
15. Write a Python program to sort a tuple by its float element.   
    Sample data: [('item1', '12.20'), ('item2', '15.10'), ('item3', '24.5')]  
    Expected Output: [('item3', '24.5'), ('item2', '15.10'), ('item1', '12.20')]
16. Write a Python program to count the elements in a list until an element is a tuple.