**ASSIGNMENT-2 :DATA TYPES**

Let’s practise some interesting problem on data types in Python

1. Create a list with user defined inputs.

li=list(map(int,input().split()))

1. Add the following list to above created list:

[‘google’,’apple’,’facebook’,’microsoft’,’tesla’]

li1=['google','apple','facebook','microsoft','tesla','tesla']

li=li+li1

li

1. Count the number of time an object occurs in a list.

for i in li:

print(i,li.count(i))

1. Create a list with numbers and sort it in ascending order.

liNum=[5,9,8,4,1,23,56,4,84]

liNum.sort()

liNum

1. Given are two one-dimensional arrays A and B which are sorted in ascending order. Write a program to merge them into a single sorted array C that contains every item from arrays A and B, in ascending order. [List]

a=[1,2,3,4,5,6]

b=[7,8,9,10,11,12]

c=a+b

c

\*\* 6) Implement a stack and queue using lists.

stack = ["Amar", "Akbar", "Anthony"]

stack.append("Ram")

stack.append("Iqbal")

print(stack)

print(stack.pop())

print(stack)

print(stack.pop())

print(stack)

from collections import deque

queue = deque(["Ram", "Tarun", "Asif", "John"])

print(queue)

queue.append("Akbar")

print(queue)

queue.append("Birbal")

print(queue)

print(queue.popleft())

print(queue.popleft())

print(queue)

\*\* Logical Question