**MODULE 5 LOOPS and Functions**

**Please implement Python coding for all the problems.**

1. A) list1=[1,5.5,(10+20j),’data science’].. Print default functions and parameters exists in list1.

***list1=[1,5.5,(10+20j),'data science']***

***print(list1)***

B) How do we create a sequence of numbers in Python.

***list(range(9))***

C) Read the input from keyboard and print a sequence of numbers up to that number

***sum=0***

***number =int(input())***

***while number!=0:***

***number=int(input())***

***sum+=numbers***

1. Create 2 lists.. one list contains 10 numbers (list1=[0,1,2,3....9]) and other

list contains words of those 10 numbers (list2=['zero','one','two',.... ,'nine']).

Create a dictionary such that list2 are keys and list 1 are values..

***a=[0,1,2,3,4,5,6,7,8,9]***

***b=['zero','one','two','three','four','five','six','seven','eight','nine']***

***print("key:"+str(a))***

***print("value:"+str(b))***

***d={}***

***for key in a:***

***for value in b:***

***d[key]=value***

***b.remove(value)***

***break***

***print ("dictionary :"+str(d))***

1. Consider a list1 [3,4,5,6,7,8]. Create a new list2 such that Add 10 to the even number and multiply with 5 if it is odd number in the list1..

***list=[3,4,5,6,7,8]***

***list2=[(3\*5),(4+10),(5\*5),(6+10),(7\*5),(8+10)]***

***list2***

4. Write a simple user defined function that greets a person in such a way that :

i) It should accept both name of person and message you want to deliver.

***def greet(greeting):***

***name=input("hello, what ur name ?")***

***print("hello"+name+"it's nice to meet you"+"!")***

***greet(print)***

ii) If no message is provided, it should greet a default message ‘How are you’

Ex: Hello ---xxxx---, How are you -🡪 default message.

Ex: Hello ---xxxx---, --xx your message xx---

***def greet(greeting):***

***name=raw\_input("hello, how are you ?")***

***if name:***

***print("hello"+name+"it's nice to meet you"+"!")***

***else:***

***print("hello, how are you ?")***

***greet(print)***