**MODULE 5 LOOPS and Functions**

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**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.

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

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

**Ans:-**

#A.

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

for i in list1:

print(i)

#B.

[x for x in range(1,29,3)] #creating sequence

#C.

num = int(input("Enter a number:- ")) #taking input from keyboard

[x for x in range(1,1+num)] #printing sequence up to entered number

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..

Ans:-

list1 =[x for x in range(1,10)]

list1

list2 = ['zero','one','two','three','four','five','six','seven','eight','nine']

list2

dic = {"one":1,"two":2,"three":3,"four" :4,"five":5,"six":6, "saven":7, "eight":8,"nine":9,"ten":10}

dic.keys()

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..

Ans:-

list1 = [3,4,5,6,7,8]

for i in list1:

if i%2==0:

print(i+10)

else:

print(i\*5)

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.

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---

Ans:-

def greet(name,b= 'how are you'): #Defining function

print(name,b)

greet('Avishek') #Calling defined function