**ASSIGNMENT 7**

**Question 1.**

def divBySeven(n):

for i in range (0,n):

if(i%7==0):

yield i

for num in divBySeven(100):

print(num)

**Question 2.**

def rev\_str(mystr):

l = len(mystr)

for i in range(l-1,-1,-1):

yield mystr[i]

for ch in rev\_str("darshan"):

print(ch)

**Question 3.**

def Darshan():

fname = "Darshan"

lname = "Lokhande"

age = 21

print(Darshan.\_\_code\_\_.co\_nlocals)

**Question 4.**

def unielem(mylist):

return list(set(mylist))

mylist = input("Enter list elements : ").split(" ")

newlist = unielem(mylist)

print("Unique elements are : ",newlist)

**Question 5.**

def palincheck(mystr):

if(mystr == mystr[::-1]):

return True

else:

return False

mystr = input("Enter a string : ")

if(palincheck(mystr)):

print("Entered string is a palindrome")

else:

print("Entered string is not a palindrome")

**Question 6.**

def func1(x):

def func2(y):

return x\*y

return func2

num1 = func1(5)

print(num1(3))

**Question 7.**

def func(\*args):

sum = 0

for item in args:

sum +=item

return sum

print(func(10,20,30))

**Question 8.**

def my\_map(func, cont):

new\_list = []

for item in cont:

new\_list.append(func(item))

return new\_list

s = [1, 3, 5, 7, 9]

def sqr(x): return x \*\* 2

print (my\_map(sqr,s))

**Question 9.**

def Check(s):

low = upp = num = spec = False

strlen = len(s)

if(strlen<=12 and strlen >=6):

for i in range(strlen):

if(set(s[i]).intersection({'$','#','@'})): spec = True

elif(s[i].isnumeric()): num = True

elif(s[i].isupper()): upp = True

elif(s[i].islower()): low = True

else:

return False

if(low and upp and num and spec): return True

mylist = input("Enter the passwords you wish to check : ").split()

printf("Valid Passwords are : ")

for item in mylist:

if(Check(item)): print(item)