***Day 21 task***

#### 1. Write a program using zip() function and list() function, create a merged list of tuples from the two lists given

**def** listOfTuples(l1, l2):

**return** list(map(**lambda** x, y:(x,y), l1, l2))

list1 = [1, 2, 3]

list2 = ['M', 'K', 'P']

print(listOfTuples(list1, list2))

Output:-

[(1, 'M'), (2, 'K'), (3, 'P')]

**def** merge(list1, list2):

merged\_list = list(zip(list1, list2))

**return** merged\_list

list1 = [1, 2, 3]

list2 = ['M', 'K', 'P']

print(merge(list1, list2))

Output:-

[(1, 'M'), (2, 'K'), (3, 'p')]

#### 2. First create a range from 1 to 8. Then using zip, merge the given list and the range together to create a new list of tuples

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

list2=['M','N','O','P','Q']

result =tuple(zip(list1,list2))

print(result)

Output:-

((3, 'M'), (5, 'N'), (6, 'O'), (7, 'P'), (8, 'Q')

#### 3. Using sorted() function, sort the list in ascending order

list1=[10,9,14,50,20]

list2=sorted(list1)

print(list2)

Output:-

[9,10,14,20,50]

#### 4. Write a program using filter function, filter the even numbers so that only odd numbers are passed to the new list

**def** filtereven(nums):

**if** nums%2 !=0:

**return** **True**

**else** :

**return** **False**

numbers =[12,13,40,17,23,50,26,87]

result=filter(filtereven,numbers)

**for** i **in** result:

print(i)

Output:-

13

17

23

27