1. Program to print first 10 natural numbers using while loop

```
i=1

while i<=10:

print(i)

i=i+1
```

Output:-

1

2

3

4

5

6

7

8

9

10

2. Program to sort array elements in the ascending order

```
arr = [5, 2, 8, 7, 1];

temp = 0;

print("Elements of original array:"); for i in
```

range(0, len(arr)):

print(arr[i], end=" "); for i in

range(0, len(arr)):

for j in range(i+1, len(arr)):

if(arr[i] > arr[j]):

temp = arr[i];

arr[i] = arr[j];

arr[j] = temp;

print();

print("Elements of array sorted in ascending order:"); for i in range(0,

len(arr)):

print(arr[i], end=" ");

Output:-

Elements of original array:

5 2 8 7 1

Elements of array sorted in ascendingorder: 1 2 5 7 8

3. Program to find the maximum and minimum numbers in a listof 10 elements and to

also find the index position of them

def minimum(a, n): print("Minimum:",min(a))

print("Maximum :",max(a)) minpos = a.index(min(a)) maxpos =

a.index(max(a))

print("The minimum is at position", minpos + 1) print("The maximum is at position", maxpos + 1)

a = [3, 4, 1, 3, 4, 5,8,45,60,10]

minimum(a, len(a))

Output:-

Minimum : 1

Maximum : 60

The minimum is at position 3 The

maximum is at position 9

4. Program to find the intersection of two elements from two lists

def intersection(lst1, lst2):

lst3 = [value for value in lst1 if value in lst2] return lst3

lst1 = [4, 9, 1, 17, 11, 26, 28, 54, 69]

lst2 = [9, 9, 74, 21, 45, 11, 63, 28, 26]

print("intersected elements :", intersection(lst1, lst2))

Output:-

intersected elements : [9, 11, 26, 28]

5. Program to fetch only email ID from text file which include following

name

roll number mobile

number Email id

import re

s = "Name: Keerthi.B Roll no.:321910302055 Mobile_no:8088210581

Email_ID: keerthikiran626@gmail.com" list = re.findall("\S+@\S+",s)

print(list)

Output:-

['Email_ID: keerthikiran626@gmail.com']