***Python Assignment***

**Name : M.Prathyusha Reddy**

**Branch : CSE**

**Section : B2**

**Roll No : 321910302057**

**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:

8 4 2 6

Elements of array sorted in ascending order: 2 4 6 8

**3. Program to find the maximum and minimum numbers in a list of 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 = [4,65,23,7,64,98,2]

minimum(a, len(a))

**Output:-** Minimum : 2 Maximum : 98 The minimum is at position 7 The maximum is at position 6

**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:M.Prathyusha Roll no.:321910302057 Mobile\_no:8328012867 Email\_ID:prathyushareddymittapalli2002@gmail.com"

list = re.findall("\S+@\S+",s)

print(list)

**Output:-**

['Email\_ID: :prathyushareddymittapalli2002@gmail.com ']