EX NO:2 **NAME: P S NAVINA SHRI**

DATE: 29/05/2021 **REG NO: 141920104094**

MAXIMUM AND MINIMUM OF LIST OF NUMBERS

AIM:

To write a Python program to find the maximum and minimum of a list of numbers.

ALGORITHM:

Step 1: START

Step 2: Get number of inputs

Step 3: Get the list elements

Step 4: Print the list

Step 5: Assume the first element of list as max

Step 6: Iterate through the list to find maximum and minimum element in the list

Step 7: Print the maximum and minimum element

Step 8: STOP

PROGRAM:

```
print("THIS IS P S NAVINA SHRI's PROGRAM")
n = int(input("enter the total number of elements to be stored in the list: "))
list=[]
print("enter the element one by one:")
for i in range(0,n):
```

```
    list.append(int(input()))
print(list)
max = list[0]
min = list[0]
for i in list:
    if(max <= i):
        max = i
    if(min >= i):
        min = i
print("the maximum element in the list is {0}".format(max))
print("the minimum element in the list is {0}".format(min))
```

EXECUTED PROGRAM SCREENSHOT:

```
print("THIS IS P S NAVINA SHRI's PROGRAM")
n = int(input("enter the total number of elements to be stored in the list: "))
list=[]
print("enter the element one by one:")
for i in range(0,n):
    list.append(int(input()))
print(list)
max = list[0]
min = list[0]
for i in list:
    if(max <= i):
        max = i
    if(min >= i):
        min = i
print("the maximum element in the list is {0}".format(max))
print("the minimum element in the list is {0}".format(min))
```

OUTPUT SCREENSHOT:

```
THIS IS P S NAVINA SHRI's PROGRAM
enter the total number of elements to be stored in the list: 7
enter the element one by one:
67
78
45
90
13
46
58
[67, 78, 45, 90, 13, 46, 58]
the maximum element in the list is 90
the minimum element in the list is 13
```

RESULT:

Thus, a python program to find the maximum and minimum of a list of numbers is executed and its output is verified successfully.