

## Assignment No : 2

Q. Write a program in Python to accept N numbers from user. Compute and display maximum in list, minimum in list, sum and average of numbers.

```
limit=int(input('Enter no of numbers to store : '))

if(limit>0):

    L1=[]

    for i in range(limit):

        ele=int(input('Enter element : '))

        L1.append(ele)

    print(L1)


    maxx = L1[0]

    for i in range (limit):

        if(L1[i] > maxx):

            maxx = L1[i]

    print('Maxx : ', maxx)


    minn = L1[0]

    for i in range (limit):

        if(L1[i] < minn):

            minn = L1[i]

    print('minn : ', minn)
```

```
    summ = 0

    for i in range (limit):

        summ = summ + L1[i]

    print('summ : ', summ)

    avgg = 0

    avgg = (summ / limit)

    print('avgg : ', avgg)
else:

    print('Invalid Input')
```

OUTPUT :

1.

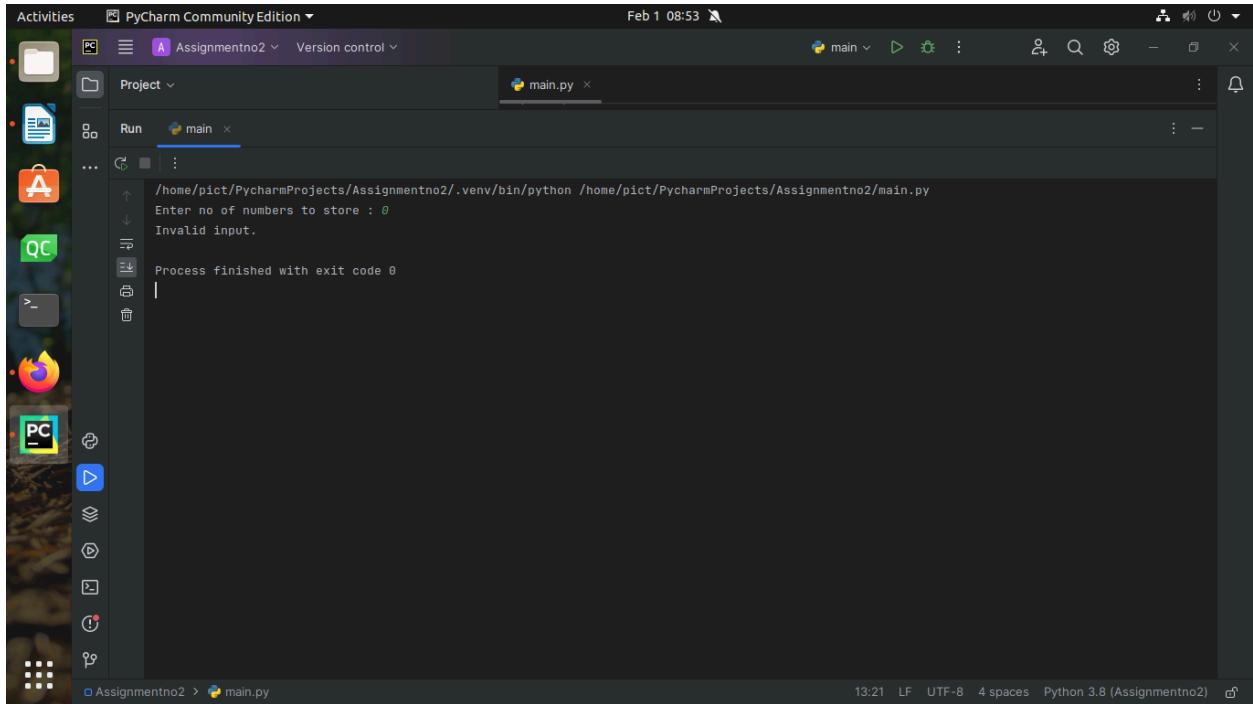
The screenshot shows the PyCharm Community Edition interface. The top bar indicates the date and time as Feb 1 08:52. The main window displays the 'Run' console for a file named 'main.py'. The console output shows the execution of a Python script that prompts the user to enter the number of elements to store (5) and then five elements (9, 7, 3, 1, 5). The script calculates and displays the maximum (Maxx: 9), minimum (minn: 1), sum (summ: 25), and average (avgg: 5.0) of the entered numbers. The process finished with exit code 0.

```
/home/pict/PycharmProjects/Assignmentno2/.venv/bin/python /home/pict/PycharmProjects/Assignmentno2/main.py
Enter no of numbers to store : 5
Enter element : 9
Enter element : 7
Enter element : 3
Enter element : 1
Enter element : 5
[9, 7, 3, 1, 5]
Maxx : 9
minn : 1
summ : 25
avgg : 5.0

Process finished with exit code 0
```

The bottom status bar shows the file path 'Assignmentno2 > main.py' and the encoding 'UTF-8'.

2.



Q. Write a program in python to accept list of N integers and partition list into two sub lists even and odd numbers.

```
limit=int(input('Enter no of numbers to store : '))

if(limit>0):

    L1=[]

    for i in range(limit):

        ele=int(input('Enter element : '))

        L1.append(ele)

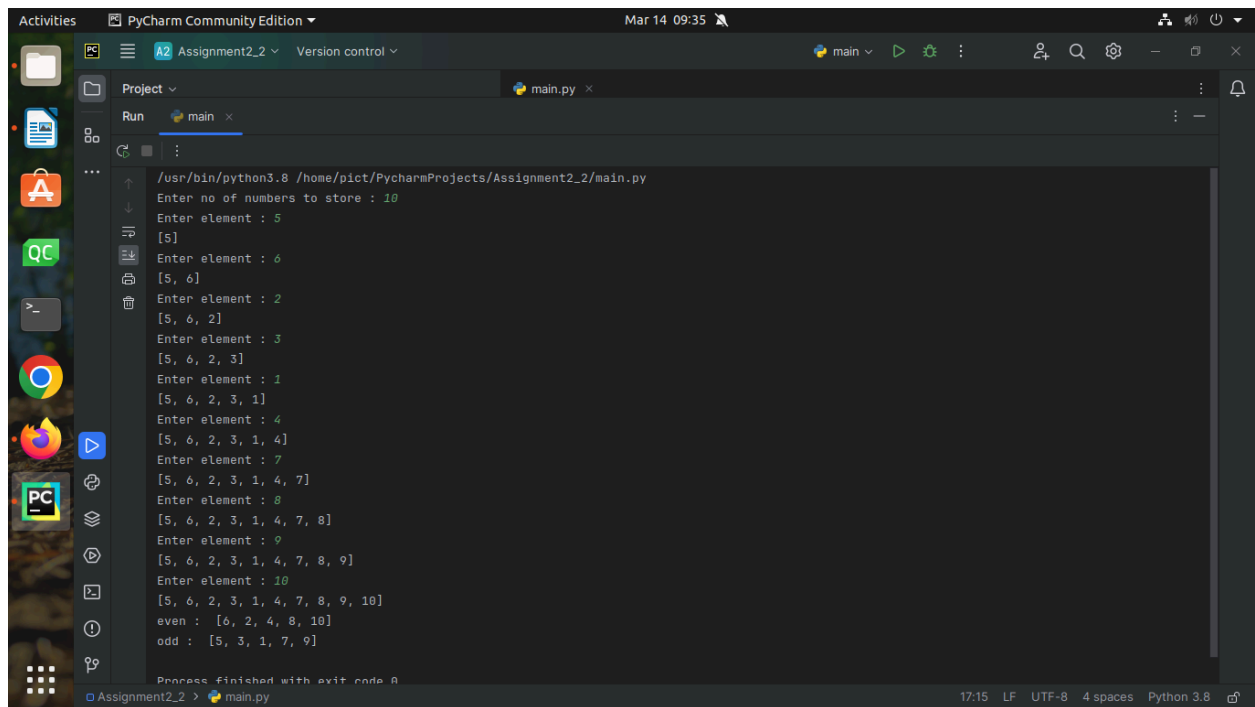
    print(L1)

L_even = []

L_odd = []
```

```
for i in range(limit):  
  
    if(L1[i] % 2 ) == 0:  
  
        L_even.append(L1[i])  
  
    else:  
  
        L_odd.append(L1[i])  
  
  
print('even : ',L_even)  
  
print('odd : ',L_odd)  
else:  
  
    print('Invalid')
```

Output :



The screenshot shows the PyCharm Community Edition interface. The main editor window displays the Python code from the previous block. The Run window at the bottom shows the execution output. The terminal output is as follows:

```
/usr/bin/python3.8 /home/pict/PycharmProjects/Assignment2_2/main.py  
Enter no of numbers to store : 10  
Enter element : 5  
[5]  
Enter element : 6  
[5, 6]  
Enter element : 2  
[5, 6, 2]  
Enter element : 3  
[5, 6, 2, 3]  
Enter element : 1  
[5, 6, 2, 3, 1]  
Enter element : 4  
[5, 6, 2, 3, 1, 4]  
Enter element : 7  
[5, 6, 2, 3, 1, 4, 7]  
Enter element : 8  
[5, 6, 2, 3, 1, 4, 7, 8]  
Enter element : 9  
[5, 6, 2, 3, 1, 4, 7, 8, 9]  
Enter element : 10  
[5, 6, 2, 3, 1, 4, 7, 8, 9, 10]  
even : [6, 2, 4, 8, 10]  
odd : [5, 3, 1, 7, 9]  
  
Process finished with exit code 0
```

The status bar at the bottom indicates the file is 'main.py' in the 'Assignment2\_2' project, using Python 3.8 with 4 spaces indentation.

