

Practical No. 01 (Group A)

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Class : S.E.

Div : A

Batch : A-2

Problem Statement :

Write a Python program to store marks scored in subject “Fundamental of Data Structure” by N students in the class. Write functions to compute following:

- a) The average score of class
- b) Highest score and lowest score of class
- c) Count of students who were absent for the test
- d) Display mark with highest frequency

Code :

```
marks = [] n = int(input("Enter no. of students
: ")) for i in range(0,n):
a = int(input("Enter marks of students : "))
marks.append(a)
print(marks)
```

```
def average():    sum = 0
for i in range(0,n):
sum = sum + marks[i]
avg = sum/n
```

```
print("Average of students : ",avg)
average()
```

```
def absent():
    absent = 0
    for i
in range(0,n):
    if marks[i] == -1:
        absent += 1
    print("No. of
Absent students :
",absent)
def max():
    max
= marks[0]
    for i
in marks:
        if i
> max:
            max
= i
    print("The
max no. is : ",max)
def min():
    min = marks[0]
    for i in marks:
        if i < min:
            min = i
    print("The min no.
is : ",min)
def countMax():
    count = 0
    max =
marks[0]
    for i in
marks:
        if i >
```

```

max:      max =
i    for i in marks:
if i == max:
        count = count + 1    print("The
count of max no. is : ",count) countMax()
def countMin():    count = 0
    min = marks[0]
for i in marks:
if i < min:
min = i    for i in
marks:      if i
== min:
        count = count + 1
    print("The count of min no. is : ",count)
countMin()

```

Output :

```
/usr/bin/python3.8 /home/dcomp-proj/S211045_Atharva/Group A : Practical 1.py
```

```
Enter no. of students : 5
```

```
Enter marks of students : 20
```

```
Enter marks of students : 30
```

```
Enter marks of students : 10
```

```
Enter marks of students : 45
```

```
Enter marks of students : 45
```

```
[20, 30, 10, 45, 45]
```

```
Average of students : 30.0
```

```
No. of Absent students : 0
```

```
The max no. is : 45
```

```
The min no. is : 10
```

```
The count of max no. is : 2
```

```
The count of min no. is : 1
```

```
Process finished with exit code 0
```

```
|
```