

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:

```
In [40]: import numpy as np
```

```
In [41]: n=int(input("Enter the number of students"))
```

Enter the number of students10

```
In [42]: i=0
mrks=[]
print("Enter the elements")
for i in range(0,n):
    m=int(input())
    mrks.append(m)
```

Enter the elements

10  
30  
33  
34  
35  
33  
10  
33  
40  
33

```
In [43]: mrks
```

```
Out[43]: [10, 30, 33, 34, 35, 33, 10, 33, 40, 33]
```

a)The average score of class:

```
In [44]: def Average_Marks():
total=0
i=0
while(i<n):
    if(mrks[i]>0):
        total=total+mrks[i]
        i=i+1
average=total//n
print("Average Marks Obtained by Students", average)
```

```
In [45]: Average_Marks()
```

Average Marks Obtained by Students 29

b) Highest score and lowest score of class:

```
In [46]: def Highest_Lowest(mrks):  
    for i in range(0,n):  
        for j in range(i+1, n):  
            if mrks[i]<mrks[j]:  
                #temp=mrks[i]  
                #mrks[i]=mrks[j]  
                #mrks[j]=temp  
                mrks[i],mrks[j]=mrks[j],mrks[i]  
  
    print(mrks[0], mrks[n-1])
```

```
In [47]: Highest_Lowest(mrks)
```

40 10

c) Count of students who were absent for the test:

```
In [48]: def Count_Absent(mrks):  
    count=0  
    for i in range(0,n):  
        if mrks[i]<0:  
            count=count+1  
            print(i)  
        continue  
    print("Total Absent students", count)
```

```
In [49]: Count_Absent(mrks)
```

Total Absent students 0

d) Display mark with highest frequency:

```
In [50]: max_freq={}  
    for i in range(0,n):  
        if i in max_freq:  
            max_freq[i]+=1  
    else:  
        max_freq[i]=1  
    print(max(max_freq, key=max_freq.get))
```

33

In [ ]:

In [ ]:

In [ ]:

In [ ]: