

**Modern Education Society's
College of Engineering, Pune**

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SEMESTER/YEAR: III sem	ROLL NO:F20111040
DATE OF PERFORMANCE:	DATE OF SUBMISSION:19/11/2021
EXAMINED BY: Prof.Anand Dhawale	EXPERIMENT NO: DSL A-02

TITLE: PERFORM VARIOUS OPERATIONS ON ARRAY

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

OBJECTIVES:

1. To understand structure of Array.
2. To understand how create, display and perform various operations on array.

OUTCOMES:

1. To analyze the problems to apply suitable algorithm and data structure.
2. To discriminate the usage of various data structures in approaching the problem solution.
3. To understand concept of linear data structure

PRE-REQUISITES:

1. Knowledge of python programming
2. Knowledge of array data structure

APPARATUS:

QUESTIONS:

1. What is static and dynamic memory allocation?
2. Explain difference between list and array in python with an example.

new > sem 3 > FDS Q2.py

FDS Q2.py ×

```
1 m=list(map(int,input('enter marks').split()))
2 #average
3 sum=0
4 for i in m:
5     sum+=i
6
7 average=sum/len(m)
8
9 #highest and lowest
10 h=0
11 for i in m:
12     if i>h:
13         h=i
14 print('highest marks:'.h)
15
16
17 l = m[0]
18 for i in m:
19     if i<l:
20         if i!=-1:
21             l = i
22 print('lowest marks:'.l)
23
24
25 # absent
26 count=0
27 for i in m:
28     if i== -1:
29         count+=1
30 print('there are {} student who are absent'.format(count))
31
32 #highest frequency
33 max = 0
34 e = m[0]
35 for i in m:
36     freq = m.count(i)
37     if freq > max:
38         max = freq
39         e = i
40 print('highest frequency marks:'.e,end='----->>>')
41 print('it is appered {} times'.format(m.count(e)))
```

Output

```
C:\Users\sspab\PycharmProjects\new\venv\Scripts\python.exe "C:/Users/
enter marks10 20 30 60 30 40 30 -1 -1 30
highest marks: 60
lowest marks: 10
there are 2 student who are absent
highest frequency marks: 30----->>>it is appered 4 times

Process finished with exit code 0
|
```