

DSL Practical 1

```
def absentSC(listOfStud,numOfStud):
    count=0
    for i in range(numOfStud):
        if listOfStud[i]==0:
            count+=1
    return count

def maxMarks(listOfStud,numOfStud):
    max=0
    for i in range(numOfStud):
        if max < listOfStud[i]:
            max = listOfStud[i]

    return max

def minMarks(listOfStud,numOfStud):
    min=listOfStud[0]
    for i in range(numOfStud):
        if min > listOfStud[i]:
            min = listOfStud[i]

    return min

def largestMFreq(numOfStud,listOfStud):
    count=0
    check=maxMarks(listOfStud,numOfStud)
    for i in range (numOfStud):
        if check == listOfStud[i]:
            count+=1
    return count

def minMFreq(numOfStud,listOfStud):
    count=0
    check=minMarks(listOfStud,numOfStud)
    for i in range (numOfStud):
        if check == listOfStud[i]:
            count+=1
    return count

def averageOfMarks(listOfStud,numOfStud):
    sumInitialize = 0
    for i in range (numOfStud):
        sumInitialize+=listOfStud[i]

    return (sumInitialize/numOfStud)

#mainProg-->

loop=True
listOfStud=[]
```

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```
numOfStud=int(input("Enter number of student:"))
count=1
```

```
for i in range(numOfStud):
    marks=int(input(f"Enter marks for student{count}:"))
    listOfStud.append(marks)
    count+=1
```

```
def showList():
    print("=====Select Your Choice=====\\n(1) Enter 1 for Average
\\n(2) Enter 2 for Maximum \\n(3) Enter 3 for Minimum \\n(4) Enter 4 for Largest
Marks Frequency \\n(5) Enter 5 for Minimum Marks Frrequency \\n(6) Enter 6
for Count of Absent student \\n(7) Enter 7 to create new list of marks \\n(8)
Enter 8 to exit")
```

```
showList()
while loop:
    choice = input("Enter your Choice:")
    if choice == "1":
        print("Average marks obtained by Student is:
",averageOfMarks(listOfStud,numOfStud))

    elif choice == '2':
        print("Maximum marks obtained by Student is:
",maxMarks(listOfStud,numOfStud))

    elif choice == '3':
        print("Minimum marks obtained by Student is:
",minMarks(listOfStud,numOfStud))

    elif choice == '4':
        print(maxMarks(listOfStud,numOfStud)," is largest marks and its
frequency is: ",largestMFreq(numOfStud,listOfStud))

    elif choice == '5':
        print(minMarks(listOfStud,numOfStud),"is minimum marks and its
frequency is: ",minMFreq(numOfStud,listOfStud))

    elif choice == '6':
        print("Number of Absent student are: ",absentSC(listOfStud,numOfStud))

    elif choice == '7':
        print("New List Created")
        listOfStudent=[]
        numOfStud = int(input("Enter number of Student :"))
        count=1

    for i in range(numOfStud):
        marks=int(input(f"Enter marks for student{count}:"))
```

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```
listOfStud.append(marks)
count+=1
```

```
print("=====Select Your Choice=====\\n (1) Enter 1 for
Average \\n(2) Enter 2 for Maximum \\n(3) Enter3 for Minimum \\n(4) Enter 4 for
Largest Marks Frequency \\n(5) Enter 5 for Minimum Marks Frrequency \\n(6)
Enter 6 for Count of Absent student \\n(7) Enter 7 to create new list of marks
\\n(8) Enter 8 to exit")
```

```
    elif choice == '8':
        loop=False
```

```
else:
    print("You entered wrong choice try again")
```

// OUTPUT

```
Enter number of student:6
Enter marks for student1:44
Enter marks for student2:56
Enter marks for student3:98
Enter marks for student4:74
Enter marks for student5:100
Enter marks for student6:99
=====Select Your Choice=====
(1) Enter 1 for Average
(2) Enter 2 for Maximum
(3) Enter3 for Minimum
(4) Enter 4 for Largest Marks Frequency
(5) Enter 5 for Minimum Marks Frrequency
(6) Enter 6 for Count of Absent student
(7) Enter 7 to create new list of marks
(8) Enter 8 to exit
Enter your Choice:1
Average marks obtained by Student is:  78.5
Enter your Choice:2
Maximum marks obtained by Student is:  100
Enter your Choice:3
Minimum marks obtained by Student is:  44
Enter your Choice:45
100  is largest marks and its frequency is:  1
Enter your Choice:5
44 is minimum marks and its frequency is:  1
Enter your Choice:6
Number of Absent student are:  0
Enter your Choice:7
New List Created
```