Activities Nov 9 16:25

Open *a2.py Save

```
# Function for average score of the class

def average(listofmarks):
    sum=0
    count=0
    for i in range(len(listofmarks)):
        if listofmarks[i]!=-999:
            sum+=listofmarks[i]
            count+=1
    avg=sum/count
    print("Total Marks : ", sum)
    print("Average Marks : {:.2f}".format(avg))

# Function for Highest score in the test for the class

def Maximum(listofmarks):
    for i in range(len(listofmarks)):
        if listofmarks[i]!=-999:
            Max=listofmarks[0]
            break
    for i in range(1,len(listofmarks)):
        if listofmarks[i]>Max:
            Max=listofmarks[i]
    return(Max)


# Function for Lowest score in the test for the class

def Minimum(listofmarks):
    for i in range(len(listofmarks)):
        if listofmarks[i]!=-999:
            Min=listofmarks[0]
            break
    for i in range(1,len(listofmarks)):
        if listofmarks[i]<Min:
            Min=listofmarks[i]
    return(Min)

#<-------------------------------------------------------------------------------------------------------->
```

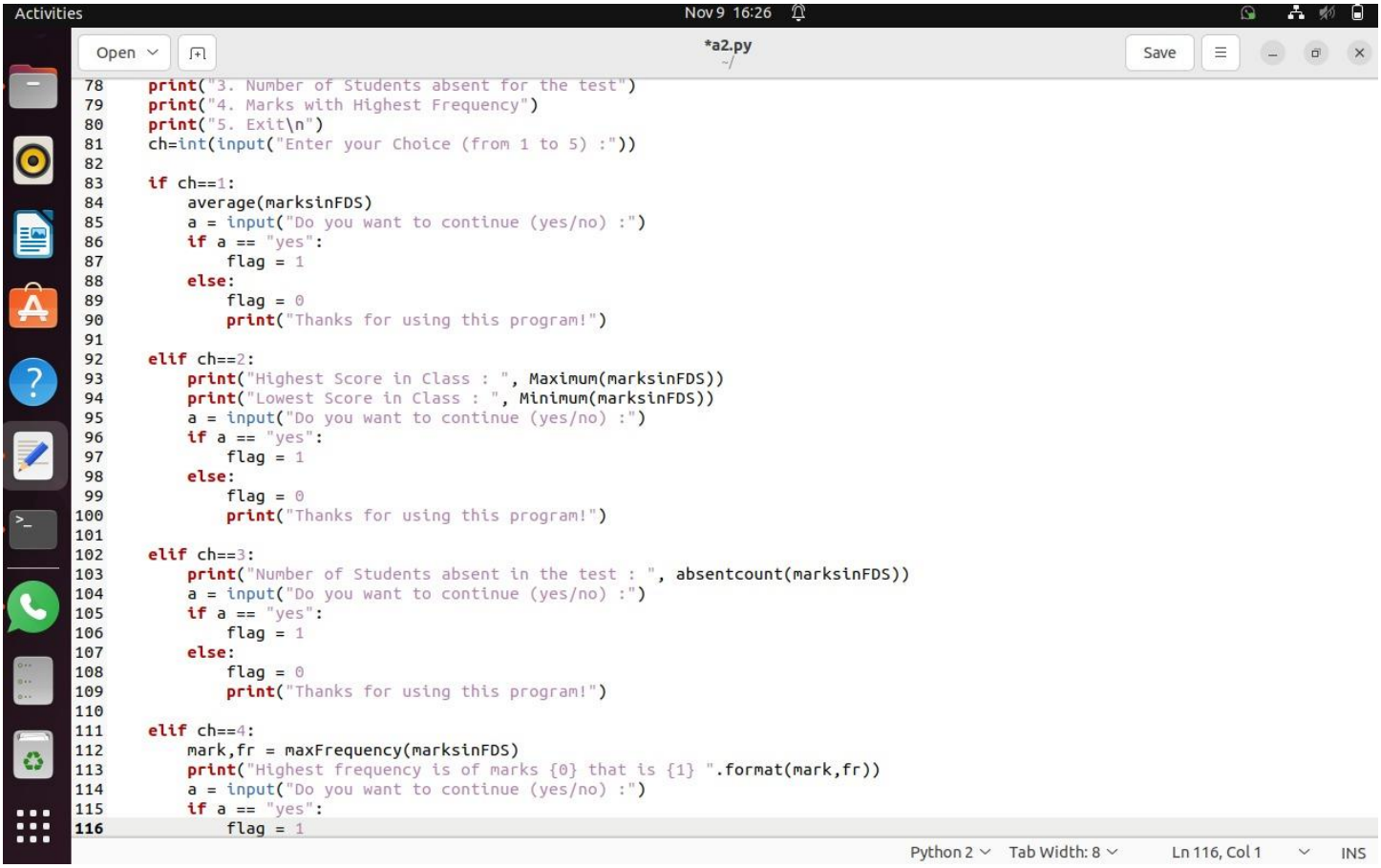
Python 2 Tab Width: 8 Ln 26, Col 1 INS

Activities Nov 9 16:26

Open *a2.py Save

```
# Function for counting the number of students absent for the test

def absentcount(listofmarks):
    count=0
    for i in range(len(listofmarks)):
        if listofmarks[i]==-999:
            count+=1
    return(count)


# Function for displaying marks with highest frequency
def maxFrequency(listofmarks):
    i=0
    Max=0
    print("Marks  |  Frequency")
    for j in listofmarks:
        if (listofmarks.index(j)==i):
            print(j,"    |  ",listofmarks.count(j))
            if listofmarks.count(j)>Max:
                Max=listofmarks.count(j)
                mark=j
        i=i+1
    return(mark,Max)


# Main function

marksinFDS=[]
numberofstudents=int(input("Enter total number of students : "))
for i in range(numberofstudents):
    marks=int(input("Enter marks of student "+str(i+1)+" : "))
    marksinFDS.append(marks)

flag=1
while flag==1:
    print("\n\n--------------------MENU--------------------\n")
    print("1. Total and Average Marks of the Class")
    print("2. Highest and Lowest Marks in the Class")
    print("3. Number of Students absent for the test")
```

Python 2 Tab Width: 8 Ln 78, Col 1 INS

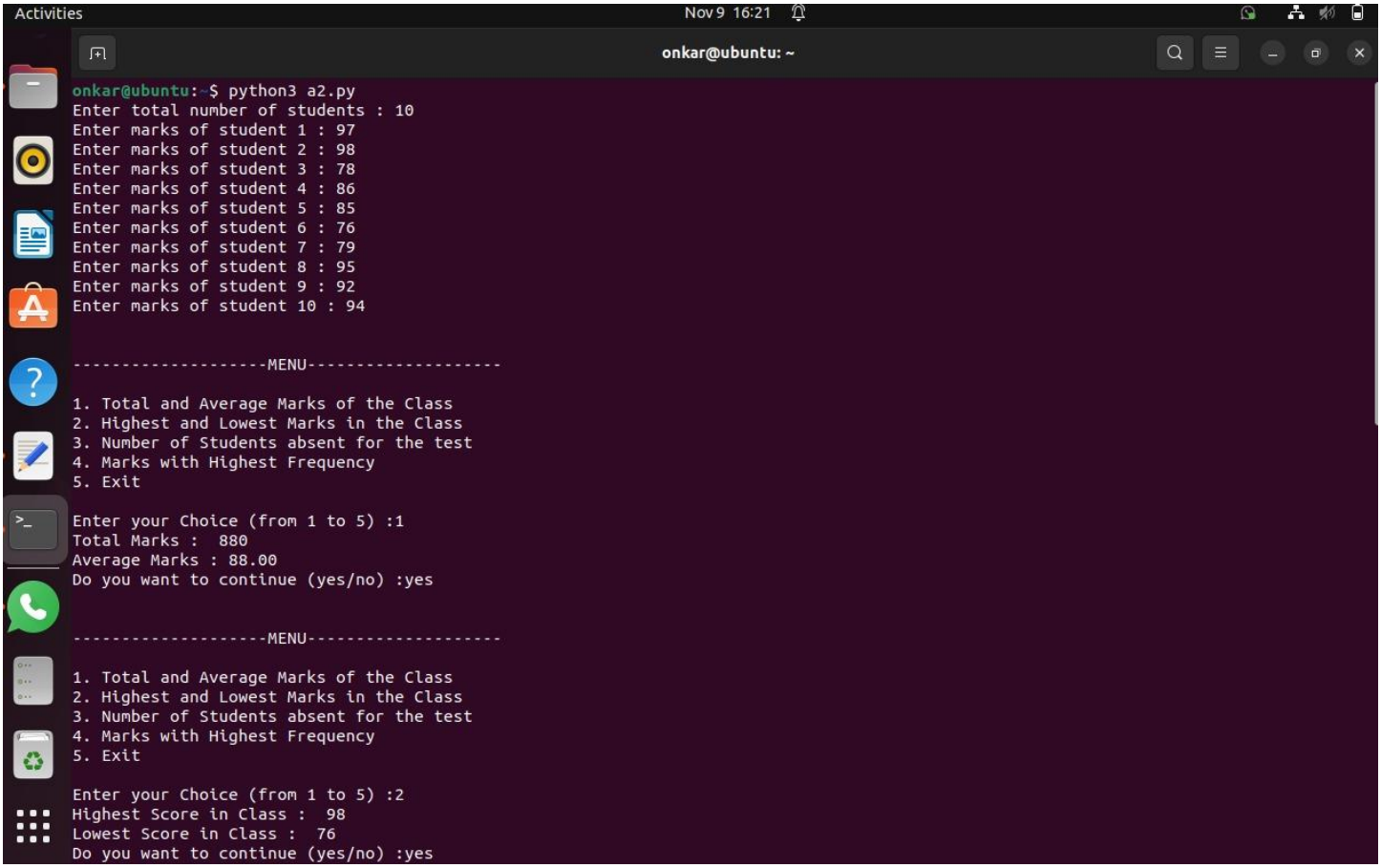


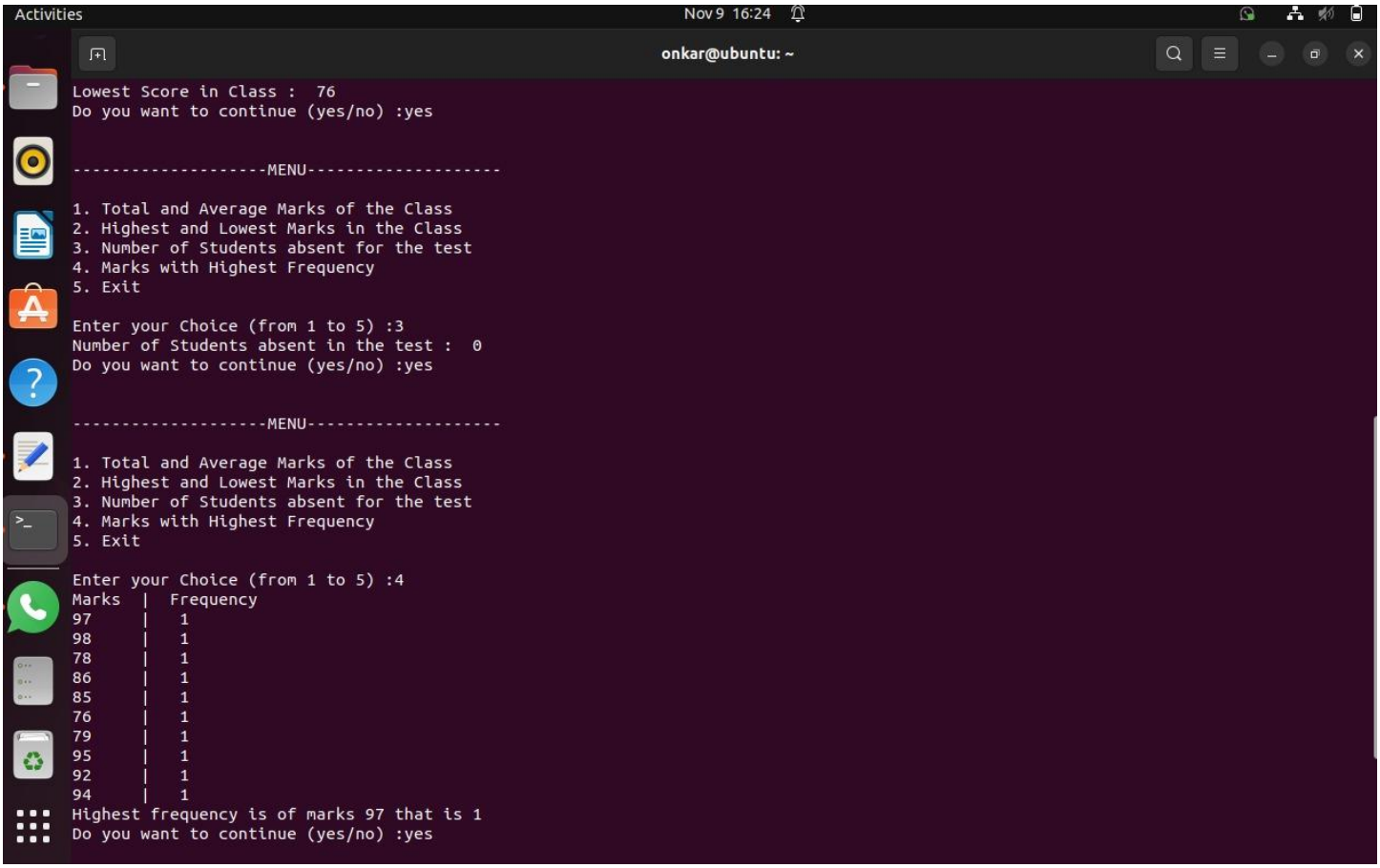

```
78      print("3. Number of Students absent for the test")
79      print("4. Marks with Highest Frequency")
80      print("5. Exit\n")
81      ch=int(input("Enter your Choice (from 1 to 5) :"))
82
83      if ch==1:
84          average(marksinFDS)
85          a = input("Do you want to continue (yes/no) :")
86          if a == "yes":
87              flag = 1
88          else:
89              flag = 0
90              print("Thanks for using this program!")
91
92      elif ch==2:
93          print("Highest Score in Class : ", Maximum(marksinFDS))
94          print("Lowest Score in Class : ", Minimum(marksinFDS))
95          a = input("Do you want to continue (yes/no) :")
96          if a == "yes":
97              flag = 1
98          else:
99              flag = 0
100             print("Thanks for using this program!")
101
102     elif ch==3:
103         print("Number of Students absent in the test : ", absentcount(marksinFDS))
104         a = input("Do you want to continue (yes/no) :")
105         if a == "yes":
106             flag = 1
107         else:
108             flag = 0
109             print("Thanks for using this program!")
110
111     elif ch==4:
112         mark,fr = maxFrequency(marksinFDS)
113         print("Highest frequency is of marks {0} that is {1} ".format(mark,fr))
114         a = input("Do you want to continue (yes/no) :")
115         if a == "yes":
116             flag = 1
```

Python 2 Tab Width: 8 Ln 116, Col 1 INS

```
117         else:
118             flag = 0
119             print("Thanks for using this program!")
120
121     elif ch==5:
122         flag=0
123         print("Thanks for using this program!")
124
125     else:
126         print("!!Wrong Choice!! ")
127         a=input("Do you want to continue (yes/no) :")
128         if a=="yes":
129             flag=1
130         else:
131             flag=0
132             print("Thanks for using this program!")
```

Python 2 Tab Width: 8 Ln 132, Col 52 INS


Activities
Nov 9 16:21
onkar@ubuntu: ~
onkar@ubuntu:~$ python3 a2.py
Enter total number of students : 10
Enter marks of student 1 : 97
Enter marks of student 2 : 98
Enter marks of student 3 : 78
Enter marks of student 4 : 86
Enter marks of student 5 : 85
Enter marks of student 6 : 76
Enter marks of student 7 : 79
Enter marks of student 8 : 95
Enter marks of student 9 : 92
Enter marks of student 10 : 94
----------MENU----------
1. Total and Average Marks of the Class
2. Highest and Lowest Marks in the Class
3. Number of Students absent for the test
4. Marks with Highest Frequency
5. Exit
Enter your Choice (from 1 to 5) :1
Total Marks : 880
Average Marks : 88.00
Do you want to continue (yes/no) :yes
----------MENU----------
1. Total and Average Marks of the Class
2. Highest and Lowest Marks in the Class
3. Number of Students absent for the test
4. Marks with Highest Frequency
5. Exit
Enter your Choice (from 1 to 5) :2
Highest Score in Class : 98
Lowest Score in Class : 76
Do you want to continue (yes/no) :yes


Activities
Nov 9 16:24
onkar@ubuntu: ~
Lowest Score in Class : 76
Do you want to continue (yes/no) :yes
----------MENU----------
1. Total and Average Marks of the Class
2. Highest and Lowest Marks in the Class
3. Number of Students absent for the test
4. Marks with Highest Frequency
5. Exit
Enter your Choice (from 1 to 5) :3
Number of Students absent in the test : 0
Do you want to continue (yes/no) :yes
----------MENU----------
1. Total and Average Marks of the Class
2. Highest and Lowest Marks in the Class
3. Number of Students absent for the test
4. Marks with Highest Frequency
5. Exit
Enter your Choice (from 1 to 5) :4
Marks | Frequency
97 | 1
98 | 1
78 | 1
86 | 1
85 | 1
76 | 1
79 | 1
95 | 1
92 | 1
94 | 1
Highest frequency is of marks 97 that is 1
Do you want to continue (yes/no) :yes


--------------------MENU--------------------
1. Total and Average Marks of the Class
2. Highest and Lowest Marks in the Class
3. Number of Students absent for the test
4. Marks with Highest Frequency
5. Exit
Enter your Choice (from 1 to 5) :5
Thanks for using this program!
onkar@ubuntu:~$