Pratical 2

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))

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)

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)

def absentcount(listofmarks):

count=0

for i in range(len(listofmarks)):

if listofmarks[i]==-999:

count+=1

return(count)

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)

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")

print("4. Marks with Highest Frequency")

print("5. Exit\n")

ch=int(input("Enter your Choice (from 1 to 5) :"))

if ch==1:

average(marksinFDS)

a = input("Do you want to continue (yes/no) :")

if a == "yes":

flag = 1

else:

flag = 0

print("Thanks for using this program!")

elif ch==2:

print("Highest Score in Class : ", Maximum(marksinFDS))

print("Lowest Score in Class : ", Minimum(marksinFDS))

a = input("Do you want to continue (yes/no) :")

if a == "yes":

flag = 1

else:

flag = 0

print("Thanks for using this program!")

elif ch==3:

print("Number of Students absent in the test : ", absentcount(marksinFDS))

a = input("Do you want to continue (yes/no) :")

if a == "yes":

flag = 1

else:

flag = 0

print("Thanks for using this program!")

elif ch==4:

mark,fr = maxFrequency(marksinFDS)

print("Highest frequency is of marks {0} that is {1} ".format(mark,fr))

a = input("Do you want to continue (yes/no) :")

if a == "yes":

flag = 1

else:

flag = 0

print("Thanks for using this program!")

elif ch==5:

flag=0

print("Thanks for using this program!")

else:

print("!!Wrong Choice!! ")

a=input("Do you want to continue (yes/no) :")

if a=="yes":

flag=1

else:

flag=0

print("Thanks for using this program!")

output

