fds\_marks=[]

n =int(input("Enter nos of student:"))

for s1 in range(0,n):

while(1):

marks=int(input("Enter marks for FDS in range[0-100] and -1 if absent: for Rollno"+str(s1+1)+":"))

if(marks>=-1)and(marks<101):

fds\_marks.append(marks)

break

else:

print("invalid marks re-try, range[0-100]")

print(fds\_marks)

print(fds\_marks.count(-1))

#query1:

#the avg score of class:

print("Average:",(sum(fds\_marks)+(fds\_marks.count(-1)))/(n-fds\_marks.count(-1)))

#query2:

#the highest score and lowest of class:

print("highest marks of student:",max(fds\_marks))

temp=fds\_marks.copy()

while(-1 in fds\_marks):

fds\_marks.remove(-1)

print("Lowest marks of student:",min(fds\_marks))

fds\_marks=temp.copy()

#query3:

#count student who were absent for exam

print("Absent student are :",fds\_marks.count(-1))

OUTPUT—

Enter nos of student: 5

Enter marks for FDS in range[0-100] and -1 if absent: for Rollno1: 20

Enter marks for FDS in range[0-100] and -1 if absent: for Rollno2: 20

Enter marks for FDS in range[0-100] and -1 if absent: for Rollno3: -1

Enter marks for FDS in range[0-100] and -1 if absent: for Rollno4: 20

Enter marks for FDS in range[0-100] and -1 if absent: for Rollno5: -1

[20, 20, -1, 20, -1]

2

Average: 20.0

highest marks of student: 20

Lowest marks of student: 20

Absent student are : 2

#query4

def freq(l1):

d={}

for i in l1:

if(i not in d.keys()):

d[i]=1

else:

d[i]=d[i]+1

return(d)

def maxfreq(l1):

d=freq(l1)

maxval=max(list(d.values()))

for i in d.keys():

if(d[i]==maxval):

print(i,maxval)

return(d)

l1=[1,2,3,50,50,20,100,100,50]

d=maxfreq(l1) #fds\_marks

print(d)

OUTPUT—

50 3

{1: 1, 2: 1, 3: 1, 50: 3, 20: 1, 100: 2}

[ ]: