jupyter Assignment 1 Last Checkpoint: 13 minutes ago (autosaved)

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Run Code

In [16]:
```
# read file
f1=open('stud_info.csv','r')
info_dataset=[]
while True:
    data=f1.readline()
    if data:
        info_dataset.append(data.replace("\n","").split(','))
    else:
        break


RollNo=[]
Name=[]
Gender=[]
DOB=[]

for row in info_dataset[1:]:
   RollNo.append(row[0])
   Name.append(row[1])
   Gender.append(row[2])
   DOB.append(row[3])



f2=open('stud_placement.csv','r')
placement_dataset=[]
while True:
  data=f2.readline()
  if data:
    placement_dataset.append(data.replace("\n","").split(','))
  else:
     break


RollNo=[]
Company=[]
JobRole=[]
Package=[]

for row in placement_dataset[1:]:
   RollNo.append(row[0])
   Company.append(row[1])
```

```
for row in placement_dataset[1:]:
   RollNo.append(row[0])
   Company.append(row[1])
   JobRole.append(row[2])
   Package.append(row[3])

f3=open('student_marks.csv','r')
marks_dataset=[]
while True:
  data=f3.readline()
  if data:
    marks_dataset.append(data.replace("\n","").split(','))
  else:
     break


Math=[]
Physics=[]
Chemistry=[]
Total=[]
Percentage=[]

for row in marks_dataset[1:]:
  Math.append(row[1])
  Physics.append(row[2])
  Chemistry.append(row[3])
  Total.append(row[4])
  Percentage.append(row[5])



studentdata=[]
studentdata.append(RollNo)
studentdata.append(Name)
studentdata.append(Gender)
studentdata.append(DOB)
studentdata.append(Math)
studentdata.append(Physics)
studentdata.append(Chemistry)
studentdata.append(Total)
studentdata.append(Percentage)
studentdata.append(Company)
studentdata.append(JobRole)
studentdata.append(Package)
```

```
studentdata.append(Company)
studentdata.append(JobRole)
studentdata.append(Package)


fw=open('StudentDetails.csv','w')

data_to_write=[]
for i in range(len(studentdata[0])):# 10 rows
   row=list()
   for j in range(len(studentdata)):#12 col
     data=studentdata[j][i]
     row.append(data)
   row.append('\n')
   data_to_write.append(",".join(row))

data_to_write

fw.writelines(data_to_write)

fw.close()

# 1.Sum of Marks
# 2.Average Marks
print("Math marks=",Math)
print("Physics Marks=",Physics)
print("Chemistry Marks=",Chemistry)
Math=[int(i) for i in Math]
physics=[int(i) for i in Physics]
chemistry=[int(i) for i in Chemistry]
sum_of_marks=[]
avg=[]
for i in range(len(Math)):
   sum_of_marks.append(Math[i]+physics[i]+chemistry[i])
   avg.append(round(sum_of_marks[i],2))
print("Sum of Marks=",sum_of_marks)
print("Average Marks=",avg)

# 3. Max Marks
print("Maximum Marks",max(avg))

# 4. Min marks
# Max Marks
print("Minimum Marks=",min(avg))
```

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```
physics=[int(i) for i in Physics]
chemistry=[int(i) for i in Chemistry]
sum_of_marks=[]
avg=[]
for i in range(len(Math)):
   sum_of_marks.append(Math[i]+physics[i]+chemistry[i])
   avg.append(round(sum_of_marks[i],2))
print("Sum of Marks=",sum_of_marks)
print("Average Marks=",avg)

# 3. Max Marks
print("Maximum Marks",max(avg))

# 4. Min marks
# Max Marks
print("Minimum Marks=",min(avg))

# 5. Count total no of student
print("Total No of student=",len(studentdata[0]))

# 6. Percentage
# Assume math marks=90, physics=90, chem=90
per=[]
for i in range(len(sum_of_marks)):
   per.append(round((100*sum_of_marks[i]/270),2))
print("percentage=",per)
```

```
Math marks= ['55', '75', '25', '78', '58', '88', '56', '54', '46', '89']
Physics Marks= ['45', '55', '54', '55', '96', '78', '89', '55', '66', '87']
Chemistry Marks= ['56', '55', '89', '86', '78', '58', '69', '88', '65', '54']
Sum of Marks= [156, 185, 168, 219, 232, 224, 214, 197, 177, 230]
Average Marks= [156, 185, 168, 219, 232, 224, 214, 197, 177, 230]
Maximum Marks 232
Minimum Marks= 156
Total No of student= 10
percentage= [57.78, 68.52, 62.22, 81.11, 85.93, 82.96, 79.26, 72.96, 65.56, 85.19]
```