```
from google.colab import drive
drive.mount('/content/drive')
      Mounted at /content/drive
import pandas as pd
# Read File
file=open('drive/My Drive/Colab Notebooks/stud info.csv','r')
info_dataset=[]
while True:
     data=file.readline()
    if data:
         info_dataset.append(data.replace("\n", "").split(','))
     else:
         break
print(info_dataset)
      [['Roll No', 'name', 'Gender', 'DOB'], ['1', 'John', 'Male', '05-04-1988'], ['2', 'Mayur', 'Male', '04-05-1987'], ['3', 'Mangesh', 'Male', '05-04-1988']
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])
print(RollNo)
print(Name)
print(Gender)
print(DOB)
      ['1', '2', '3', '4', '5', '6', '7', '8', '9', '10']
['John', 'Mayur', 'Mangesh', 'Jessica', 'Jennifer', 'Ramesh', 'Suresh', 'Ganesh', 'Komal', 'Mayuri']
['Male', 'Male', 'Female', 'Female', 'Female', 'Male', 'Male', 'Female', 'Female']
['05-04-1988', '04-05-1987', '25-05-1989', '12-08-1990', '02-09-1989', '03-09-1989', '04-09-1990', '05-10-1989', '06-09-1989', '07-02-19
     4
# Read Student Marks
file=open('drive/My Drive/Colab Notebooks/student_marks.csv','r')
marks_dataset=[]
while True:
    data=file.readline()
    if data:
         marks_dataset.append(data.replace("\n", "").split(','))
    else:
         break
print(marks_dataset)
      [['Roll', 'Maths', 'Physics', 'Chemistry', 'Total', 'Percentage'], ['1', '55', '45', '56', '156', '52.00'], ['2', '75', '55', '185']
     4
Maths=[]
Physics=[]
Chemistry=[]
Total=[]
Percentage=[]
for row in marks_dataset[1:]:
    Maths.append(row[1])
    Physics.append(row[2])
    Chemistry.append(row[3])
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Total.append(row[4])
    Percentage.append(row[5])
print(Maths)
print(Physics)
print(Chemistry)
print(Total)
print(Percentage)
     ['55', '75', '25', '78', '58', '88', '56', '54', '46', '89']
['45', '55', '54', '55', '96', '78', '89', '55', '66', '87']
['56', '55', '89', '86', '78', '58', '69', '88', '65', '54']
['156', '185', '168', '219', '232', '224', '214', '197', '177', '230']
['52.00', '61.67', '56.00', '73.00', '77.33', '74.67', '71.33', '65.67', '59.00', '76.67']
# Read Student Marks
file=open('drive/My Drive/Colab Notebooks/stud_placement.csv','r')
placement_dataset=[]
while True:
    data=file.readline()
     if data:
         placement_dataset.append(data.replace("\n", "").split(','))
     else:
         break
print(placement_dataset)
      [['Roll No', 'Company', 'JobRole', 'Package'], ['1', 'Infosys', 'Data Analyst', '10.2'], ['2', 'TCS', 'Java Developer', '9.6'], ['3', 'I
Company=[]
JobRole=[]
Package=[]
for row in placement_dataset[1:]:
    Company.append(row[1])
    JobRole.append(row[2])
    Package.append(row[3])
print(Company)
print(JobRole)
print(Package)
      ['Infosys', 'TCS', 'TCS', 'Infosys', 'Oracle', 'Oracle', 'TCS', 'Infosys', 'Mindtree', 'Mindtree']
      ['Data Analyst', 'Java Developer', 'Data Scientist', 'Data Analyst', 'Java Developer', 'Data Scientist', 'Tester', 'Tester', 'Database & ['10.2', '9.6', '12.60', '9.6', '12.60', '6.50', '6.51', '8.30', '8.31']
     4
studentdata=[]
studentdata.append(RollNo)
studentdata.append(Name)
studentdata.append(Gender)
studentdata.append(DOB)
studentdata.append(Maths)
studentdata.append(Physics)
studentdata.append(Chemistry)
studentdata.append(Total)
studentdata.append(Percentage)
studentdata.append(Company)
studentdata.append(JobRole)
studentdata.append(Package)
studentdata
 ['1', '2', '3', '4', '5', '6', '7', '8', '9', '10'],
       ['John'
         'Mayur'
         'Mangesh',
         'Jessica'
         'Jennifer'
         'Ramesh',
         'Suresh'.
```

'Ganesh',

```
'Komal'
                    'Mayuri'],
                ['Male',
                    'Male',
                    'Male',
                    'Female'.
                    'Female',
                   'Male',
                    'Male',
                   'Male'
                   'Female'
                    'Female'],
                ['05-04-1988',
                     '04-05-1987',
                    '25-05-1989'
                  '12-08-1990',
                    '02-09-1989',
                    '03-09-1989',
                    '04-09-1990',
                    '05-10-1989'
                    '06-09-1989'
                  '07-02-1988'],
                ['55', '75', '25', '78', '58', '88', '56', '54', '46', '89'],
['45', '55', '54', '55', '96', '78', '89', '55', '66', '87'],
['56', '55', '89', '86', '78', '58', '69', '88', '65', '54'],
['156', '185', '168', '219', '232', '224', '214', '197', '177', '230'],
                ['52.00',
                    '61.67',
                   '56.00',
                  '73.00',
                   '77.33',
                    '74.67',
                  '71.33',
                   '65.67',
                   '59.00'
                  '76.67'<sup>1</sup>,
                ['Infosys',
                    'TCS',
                  'TCS',
                   'Infosys',
                    'Oracle',
                    'Oracle',
                    'TCS',
                   'Infosys',
                   'Mindtree'
                    'Mindtree'],
                ['Data Analyst'
                    'Java Developer',
fw=open("drive/My Drive/Colab Notebooks/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
              \hbox{['1,John,Male,05-04-1988,55,45,56,156,52.00,Infosys,Data Analyst,10.2,\n',}\\
                  '2,Mayur,Male,04-05-1987,75,55,55,185,61.67,TCS,Java Developer,9.6,\n',
                '3, Mangesh, Male, 25-05-1989, 25, 54, 89, 168, 56.00, TCS, Data Scientist, 12.60, \n'
                 '4, Jessica, Female, 12-08-1990, 78, 55, 86, 219, 73.00, Infosys, Data Analyst, 10.2, \n',
                 \label{eq:constraints} \textbf{'5,Jennifer,Female,02-09-1989,58,96,78,232,77.33,0} \\ \textbf{Oracle,Java Developer,9.6,\n',} \\ \textbf{Oracle,Java Develop
                 '6,Ramesh,Male,03-09-1989,88,78,58,224,74.67,Oracle,Data Scientist,12.60,\n',
                 '7,Suresh,Male,04-09-1990,56,89,69,214,71.33,TCS,Tester,6.50,\n',
                 '8,Ganesh,Male,05-10-1989,54,55,88,197,65.67,Infosys,Tester,6.51,\n'
                 '9,Komal,Female,06-09-1989,46,66,65,177,59.00,Mindtree,Database Admin,8.30,\n'
                 '10,Mayuri,Female,07-02-1988,89,87,54,230,76.67,Mindtree,Database Admin,8.31,\n']
fw.writelines(data_to_write)
```

fw.close()

```
# 1. Sum of Marks
# 2. Average Marks
print("Math Marks=",Maths)
print("Phyics Marks=",Physics)
print("Chemistry Marks=",Chemistry)
math=[int(i) for i in Maths]
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]/3),2))
print("Sum of Marks=",sum_of_marks)
print("Average Marks=",avg)
     Math Marks= ['55', '75', '25', '78', '58', '88', '56', '54', '46', '89']
Phyics 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= [52.0, 61.67, 56.0, 73.0, 77.33, 74.67, 71.33, 65.67, 59.0, 76.67]
# 3. Max Marks
print("Maximum Marks=",max(avg))
      Maximum Marks= 77.33
# 4. Min Marks
# Max Marks
print("Maximum Marks=",min(avg))
      Maximum Marks= 52.0
# 5. Count total no of student
print("Total No of Student=",len(studentdata[0]))
      Total No of Student= 10
#6. Percentage
#assume math marks=90, physic=90, chem=90
for i in range(len(sum_of_marks)):
    per.append(round((100*sum_of_marks[i]/270),2))
print("Percentage=",per)
      Percentage= [57.78, 68.52, 62.22, 81.11, 85.93, 82.96, 79.26, 72.96, 65.56, 85.19]
```

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