Assignment: 1

Name: Ayush Kalmegh

Roll No.: 525

Batch: E2

```
#Read File 1
file=open('/content/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)

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("\n\n",RollNo)
print("\n",Name)
print("\n",Gender)
print("\n",DOB)

#Read file 2
file=open('/content/stud_placement.csv','r')
placement=[]
while True:
  data=file.readline()
  if data:
    placement.append(data.replace("\n", "").split(','))
  else:
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    break

print("\n\n",placement)

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

for row in placement[1:]:
  Company.append(row[1])
  JobRole.append(row[2])
  Package.append(row[3])

print("\n\n",Company)
print("\n",JobRole)
print("\n",Package)

#Read file 3
file=open('/content/student_marks.csv','r')
Marks=[]
while True:
  data=file.readline()
  if data:
    Marks.append(data.replace("\n", "").split(','))
  else:
    break

print("\n\n",Marks)

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

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

print("\n\n",Math)
print("\n",Physics)
print("\n",Chemistry)
```

```
print("\n",Total)
print("\n",Percentage)

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

print("\n\n",studentdata)

new=open('/content/Final.csv','w')

write=[]
for i in range(len(studentdata[0])):
  row=list()
  for j in range(len(studentdata)):
    data=studentdata[j][i]
    row.append(data)
  row.append('\n')
  write.append(",".join(row))

write

new.writelines(write)



print("\n\nMath Marks=",Math)
print("\nPhysics Marks=",Physics)
print("\nChemistry 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=[]
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```
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("\n\nSum of Marks=",Sum_of_marks)
print("\nAverage Marks=",avg)


#Max Marks
print("\nMaximum Marks=",max(avg))

#Min Marks
print("\nMinimum Marks=",min(avg))

#Total No of Students
print("\nTotal No of Student=",len(studentdata[0]))

#Percentage
per=[]
for i in range(len(Sum_of_marks)):
  per.append(round((100*Sum_of_marks[i]/270),2))
print("\nPercentage=",per)
```

Output:-

```
[['Roll No', 'name', 'Gender', 'DOB'], ['1', 'John', 'Male', '05-04-
1988'], ['2', 'Mayur', 'Male', '04-05-1987'], ['3', 'Mangesh', 'Male',
'25-05-1989'], ['4', 'Jessica', 'Female', '12-08-1990'], ['5',
'Jennifer', 'Female', '02-09-1989'], ['6', 'Ramesh', 'Male', '03-09-
1989'], ['7', 'Suresh', 'Male', '04-09-1990'], ['8', 'Ganesh', 'Male',
'05-10-1989'], ['9', 'Komal', 'Female', '06-09-1989'], ['10',
'Mayuri', 'Female', '07-02-1988']]


 ['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']

[['Roll No', 'Company', 'JobRole', 'Package'], ['1', 'Infosys', 'Data Analyst', '10.2'], ['2', 'TCS', 'Java Developer', '9.6'], ['3', 'TCS', 'Data Scientist', '12.60'], ['4', 'Infosys', 'Data Analyst', '10.2'], ['5', 'Oracle', 'Java Developer', '9.6'], ['6', 'Oracle', 'Data Scientist', '12.60'], ['7', 'TCS', 'Tester', '6.50'], ['8', 'Infosys', 'Tester', '6.51'], ['9', 'Mindtree', 'Database Admin', '8.30'], ['10', 'Mindtree', 'Database Admin', '8.31']]

['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 Admin', 'Database Admin']

['10.2', '9.6', '12.60', '10.2', '9.6', '12.60', '6.50', '6.51', '8.30', '8.31']

[['Roll', 'Maths', 'Physics', 'Chemistry', 'Total', 'Percentage'], ['1', '55', '45', '56', '156', '52.00'], ['2', '75', '55', '55', '185', '61.67'], ['3', '25', '54', '89', '168', '56.00'], ['4', '78', '55', '86', '219', '73.00'], ['5', '58', '96', '78', '232', '77.33'], ['6', '88', '78', '58', '224', '74.67'], ['7', '56', '89', '69', '214', '71.33'], ['8', '54', '55', '88', '197', '65.67'], ['9', '46', '66', '65', '177', '59.00'], ['10', '89', '87', '54', '230', '76.67']]

['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']

[['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'], ['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 Admin', 'Database Admin'], ['10.2', '9.6', '12.60', '10.2', '9.6', '12.60', '6.50', '6.51', '8.30', '8.31'], ['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']]

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]