```
Name= Mahesh Diwane
#Read File
file=open('/content/stud_info.csv','r')
                                                                                                  Roll-510
info_dataset=[]
                                                                                                  Div=E1
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',
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', 'Male', 'Female', 'Female', 'Male', 'Male', 'Male', '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-
     4
#Read Student Marks
File=open('/content/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', '55',
Maths=[]
Physics=[]
Chemistry=[]
Total=[]
Percentage=[]
for row in marks_dataset[1:]:
  Maths.append(row[1])
  Physics.append(row[2])
  Chemistry.append(row[3])
  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', '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('/content/stud_placement.csv','r')
placement_dataset=[]
while True:
  data=file.readline()
    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
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', 'Datab
['10.2', '9.6', '12.60', '10.2', '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',
```

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'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'],
       ['Infosys',
        'TCS',
        'Infosys',
         'Oracle',
        'Oracle'
         'TCS',
        'Infosys'
         'Mindtree'
         'Mindtree'],
       ['Data Analyst'
         'Java Developer'
         'Data Scientist',
fw=("/content/stud info.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)
         data_to_write.append(",".join(row))
data_to_write
      ['1',
        '1,John'
       '1, John, Male',
       '1, John, Male, 05-04-1988',
       '1,John,Male,05-04-1988,55'
       '1,John,Male,05-04-1988,55,45'
       '1,John,Male,05-04-1988,55,45,56'
       '1,John,Male,05-04-1988,55,45,56,156',
       '1,John,Male,05-04-1988,55,45,56,156,52.00',
       '1,John,Male,05-04-1988,55,45,56,156,52.00,Infosys'
        '1,John,Male,05-04-1988,55,45,56,156,52.00,Infosys,Data Analyst',
       '1, John, Male, 05-04-1988, 55, 45, 56, 156, 52.00, Infosys, Data Analyst, 10.2',
       '2',
       '2,Mayur'
       '2,Mayur,Male',
       '2, Mayur, Male, 04-05-1987'
       '2, Mayur, Male, 04-05-1987, 75'
       '2, Mayur, Male, 04-05-1987, 75, 55',
       '2,Mayur,Male,04-05-1987,75,55,55'
       '2,Mayur,Male,04-05-1987,75,55,55,185',
       '2, Mayur, Male, 04-05-1987, 75, 55, 55, 185, 61.67',
        '2, Mayur, Male, 04-05-1987, 75, 55, 55, 185, 61.67, TCS'
       '2, Mayur, Male, 04-05-1987, 75, 55, 55, 185, 61.67, TCS, Java Developer'
       '2, Mayur, Male, 04-05-1987, 75, 55, 55, 185, 61.67, TCS, Java Developer, 9.6',
       '3',
       '3, Mangesh',
       '3,Mangesh,Male'
       '3, Mangesh, Male, 25-05-1989'
       '3, Mangesh, Male, 25-05-1989, 25'
       '3,Mangesh,Male,25-05-1989,25,54'
       '3, Mangesh, Male, 25-05-1989, 25, 54, 89',
       '3, Mangesh, Male, 25-05-1989, 25, 54, 89, 168',
       '3, Mangesh, Male, 25-05-1989, 25, 54, 89, 168, 56.00'
       '3, Mangesh, Male, 25-05-1989, 25, 54, 89, 168, 56.00, TCS'
       '3, Mangesh, Male, 25-05-1989, 25, 54, 89, 168, 56.00, TCS, Data Scientist'
       '3, Mangesh, Male, 25-05-1989, 25, 54, 89, 168, 56.00, TCS, Data Scientist, 12.60',
       '4',
       '4, Jessica',
        '4,Jessica,Female',
        '4,Jessica,Female,12-08-1990',
       '4,Jessica,Female,12-08-1990,78'
       '4, Jessica, Female, 12-08-1990, 78, 55',
```

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'4, Jessica, Female, 12-08-1990, 78, 55, 86'
       '4, Jessica, Female, 12-08-1990, 78, 55, 86, 219',
       '4, Jessica, Female, 12-08-1990, 78, 55, 86, 219, 73.00',
       '4, Jessica, Female, 12-08-1990, 78, 55, 86, 219, 73.00, Infosys',
       '4, Jessica, Female, 12-08-1990, 78, 55, 86, 219, 73.00, Infosys, Data Analyst',
       '4, Jessica, Female, 12-08-1990, 78, 55, 86, 219, 73.00, Infosys, Data Analyst, 10.2',
       '5,Jennifer',
'5,Jennifer,Female',
       '5, Jennifer, Female, 02-09-1989',
       '5, Jennifer, Female, 02-09-1989, 58'
       '5, Jennifer, Female, 02-09-1989, 58, 96'
       '5, Jennifer, Female, 02-09-1989, 58, 96, 78'
       '5, Jennifer, Female, 02-09-1989, 58, 96, 78, 232'
       '5, Jennifer, Female, 02-09-1989, 58, 96, 78, 232, 77.33',
       '5, Jennifer, Female, 02-09-1989, 58, 96, 78, 232, 77.33, Oracle',
# 1. sum of Marks
# 2. Average Marks
print("Math Marks=",Maths)
print("Physics 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=[]
average=[]
for i in range(len(math)):
  sum_of_marks.append(math[i]+physics[i]+chemistry[i])
  average.append(round(sum_of_marks[i],2))
  print("Sum of Marks=",sum of marks)
  print("Average Marks=",average)
     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]
     Average Marks= [156]
     Sum of Marks= [156, 185]
     Average Marks= [156, 185]
     Sum of Marks= [156, 185, 168]
     Average Marks= [156, 185, 168]
     Sum of Marks= [156, 185, 168, 219]
     Average Marks= [156, 185, 168, 219]
     Sum of Marks= [156, 185, 168, 219, 232]
     Average Marks= [156, 185, 168, 219, 232]
Sum of Marks= [156, 185, 168, 219, 232, 224]
     Average Marks= [156, 185, 168, 219, 232, 224]
     Sum of Marks= [156, 185, 168, 219, 232, 224, 214]
     Average Marks= [156, 185, 168, 219, 232, 224, 214]
     Sum of Marks= [156, 185, 168, 219, 232, 224, 214, 197]
     Average Marks= [156, 185, 168, 219, 232, 224, 214, 197]
     Sum of Marks= [156, 185, 168, 219, 232, 224, 214, 197, 177]
     Average Marks= [156, 185, 168, 219, 232, 224, 214, 197, 177]
     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]
# 3. Max Marks
print("Maximum Marks=",max(average))
     Maximum Marks= 232
# 4. Min Marks
# max Marks
print("Maximum Marks=",min(average))
     Maximum Marks= 156
# 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]
     Percentage= [57.78, 68.52]
     Percentage= [57.78, 68.52, 62.22]
```

```
Percentage= [57.78, 68.52, 62.22, 81.11]

Percentage= [57.78, 68.52, 62.22, 81.11, 85.93]

Percentage= [57.78, 68.52, 62.22, 81.11, 85.93, 82.96]

Percentage= [57.78, 68.52, 62.22, 81.11, 85.93, 82.96, 79.26]

Percentage= [57.78, 68.52, 62.22, 81.11, 85.93, 82.96, 79.26, 72.96]

Percentage= [57.78, 68.52, 62.22, 81.11, 85.93, 82.96, 79.26, 72.96, 65.56]

Percentage= [57.78, 68.52, 62.22, 81.11, 85.93, 82.96, 79.26, 72.96, 65.56]

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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