NAME : MAYUR SUDAMSING GIRASE

DIV : E

ROLL.NO : 514

```
#Read File
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 )
```

```
[['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', '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-
```

```
#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', '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('/content/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
```

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

```
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'],
      ['Infosys',
       'TCS',
       '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',
```

```
      '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',
      '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 per=[] 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, 85.19]
```