## 424-janhavi-pawar

## May 10, 2023

```
[1]: file=open('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', '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']]
[2]: RollNo=[]
     Name=[]
     Gender=[]
     D0B=[]
[3]: for row in info_dataset[1:]:
         RollNo.append(row[0])
         Name.append(row[1])
         Gender.append(row[2])
         DOB.append(row[3])
[4]: 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', 'Female',
    'Female']
```

```
'03-09-1989', '04-09-1990', '05-10-1989', '06-09-1989', '07-02-1988']
[5]: file=open('student marks.csv','r')
     marks_dataset=[]
     while True:
         data=file.readline()
         if data:
             marks_dataset.append(data.replace("\n", "").split(','))
             break
     print(marks_dataset)
    [['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']]
[6]: Maths=[]
     Physics=[]
     Chemistry=[]
     Total=[]
     Percentage=[]
[7]: 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])
[8]: 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']
```

['05-04-1988', '04-05-1987', '25-05-1989', '12-08-1990', '02-09-1989',

```
[9]: file=open('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', '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']]
[10]: Company=[]
      JobRole=[]
      Package=[]
[11]: for row in placement_dataset[1:]:
          Company.append(row[1])
          JobRole.append(row[2])
          Package.append(row[3])
[12]: 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 Admin', 'Database
     ['10.2', '9.6', '12.60', '10.2', '9.6', '12.60', '6.50', '6.51', '8.30', '8.31']
[14]: 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)
print(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', 'Male', 'Female', 'Female', 'Female', 'Male', 'Male', 'Male', 'O2-09-1989', '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', 'Data Analyst', 'Java Developer', 'Data Scientist', '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']]

```
[15]: fw=open("StudentDetails.csv","w")
```

```
[16]: data_to_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')
        data_to_write.append(",".join(row))
        print(data_to_write)
```

```
['1,John,Male,05-04-1988,55,45,56,156,52.00,Infosys,Data Analyst,10.2,\n']
['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']
['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']
['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',
'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',
'4,Jessica,Female,12-08-1990,78,55,86,219,73.00,Infosys,Data Analyst,10.2,\n',
```

```
'5, Jennifer, Female, 02-09-1989, 58, 96, 78, 232, 77.33, Oracle, Java Developer, 9.6, \n']
['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',
'5, Jennifer, Female, 02-09-1989, 58, 96, 78, 232, 77.33, Oracle, Java Developer, 9.6, \n',
'6, Ramesh, Male, 03-09-1989, 88, 78, 58, 224, 74.67, Oracle, Data Scientist, 12.60, \n']
['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',
'5, Jennifer, Female, 02-09-1989, 58, 96, 78, 232, 77.33, Oracle, Java Developer, 9.6, \n',
'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']
['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',
'5, Jennifer, Female, 02-09-1989, 58, 96, 78, 232, 77. 33, Oracle, Java Developer, 9.6, \n',
'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']
['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',
'5, Jennifer, Female, 02-09-1989, 58, 96, 78, 232, 77.33, Oracle, Java Developer, 9.6, \n',
'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']
['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',
'5, Jennifer, Female, 02-09-1989, 58, 96, 78, 232, 77.33, Oracle, Java Developer, 9.6, \n',
'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']
```

## [17]: fw.writelines(data\_to\_write)

## [18]: fw.close()

```
[19]: 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],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= [156, 185, 168, 219, 232, 224, 214, 197, 177, 230]
[20]: print("Maximum Marks=",max(avg))
     Maximum Marks= 232
[21]: print("Minimum Marks=",min(avg))
     Minimum Marks= 156
[22]: print("Total No of Student=",len(studentdata[0]))
     Total No of Student= 10
[23]: 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, 68.52, 62.22, 81.11, 85.93, 82.96, 79.26, 72.96, 65.56,
     85.19]
```