161 – Shubham kumar

May 11, 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',
       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])
  [4]: print (RollNo)
       print (Name)
       print (Gender)
       print(DOB)
09-1989'], ['10', 'Mayuri', 'Female', '07-02-1988']] [2]:
  [3]:
```

[['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',
     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)
'76.67'] [9]:
```

```
[['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',
       Company=[]
       JobRole=[]
       Package=[]
       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)
'Database Admin', '8.30'], ['10', 'Mindtree', 'Database Admin', '8.31']] [10]:
[11]:
      ['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'] [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'], 'Female', 'Female'], ['Male', 'Male', ['05-04 'Male', -1988', '04'Female', -
05 -
1987 'Female',', '25-05 'Male',-1989', '12'Male',-08-1990 'Male',',
        '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', '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']]
[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']
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']
```

['2, Mayur, Male, 04'1, John, Male, 05--0405--1988, 55, 451987, 75, 55, 56, 156, 52.00, Infosys, Data Analyst, 10.2, , 55, 185, 61.67, TCS, Java Developer, 9.6, \n', \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 ',
- '5, Jennifer, Female, 02-09-1989, 58, 96, 78, 232, 77. 33, 0racle, Java Developer, 9.6, \n' ,
 - '6, Ramesh, Male, 03-09-1989, 88, 78, 58, 224, 74. 67, Oracle, Data Scientist, 12. 60, \n',

^{&#}x27;4, Jessica, Female, 12-08-1990, 78, 55, 86, 219, 73.00, Infosys, Data Analyst, 10.2, \n ', and the second second control of the s

^{&#}x27;5, Jennifer, Female, 02-09-1989, 58, 96, 78, 232, 77. 33, Oracle, Java Developer, 9. 6, \n',

^{&#}x27;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']
        fw. writelines(data_to_write)
```

fw.close()

[17]:

```
[18]: print("Math Marks=", Maths) print("Phyics
            Marks=", Physics) print("Chemistry
[19]:
      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]))
```

```
[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]