

1. Read Student Info File ¶

```
In [2]: # Read File
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']]
```

```
In [3]: RollNo=[]
Name=[]
Gender=[]
DOB=[]
```

```
In [4]: for row in info_dataset[1:]:
RollNo.append(row[0])
Name.append(row[1])
Gender.append(row[2])
DOB.append(row[3])
```

```
In [5]: 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', '07-02-1988']
```

2. Read Student Marks

```
In [6]: # Read Student Marks
file=open('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', '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']]
```

```
In [7]: Maths=[]
Physics=[]
Chemistry=[]
Total=[]
Percentage=[]
```

```
In [8]: 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])
```

```
In [9]: 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']
```

3. Read Student Placement File

```
In [10]: # Read Student Marks
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']]
```

```
In [11]: Company=[]
JobRole=[]
Package=[]
```

```
In [12]: for row in placement_dataset[1:]:
    Company.append(row[1])
    JobRole.append(row[2])
    Package.append(row[3])
```

```
In [13]: 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 Admin']
['10.2', '9.6', '12.60', '10.2', '9.6', '12.60', '6.50', '6.51', '8.30', '8.31']
```

```
In [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)
```

In [15]: studentdata

```

Out[15]: [['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',
'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']]

```

Writing Data to New File

```
In [16]: fw=open("StudentDetails.csv","w")
```

```
In [17]: 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)
    row.append('\n')
    data_to_write.append(",".join(row))
```

```
In [18]: data_to_write
```

```
Out[18]: ['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']
```

```
In [19]: fw.writelines(data_to_write)
```

```
In [20]: fw.close()
```

```
In [ ]:
```