Name – SURESH CHANDRACANT NARBAT.
Div – H2
Roll no – 835
Branch – E&TC
PNR No – 202201070078

```
import csv f1=open("C:\\Users\\Desktop\\835eds\\stud_info.csv","r")
info_dataset=[ ] while True: data=f1.readline() if data:
info_dataset.append(data.replace("\n",",").split(","))  else:
                break;
print(info_dataset) f2=open("C:\\Users\\Desktop\\835eds\\stud_placement.csv","r")
f3=open("C:\\Users\\Desktop\\835eds\\student_marks.csv","r")
```

```
[['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', '']]
```

```
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', '07-02-1988']
```

```
f2=open("C:\\Users\\Desktop\\835eds\\stud_placement.csv","r") placement_dataset=[]
while True: data=f2.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', '']]

```
RollNo=[]
Company=[]
JobRole=[] Package=[] for row in placement_dataset[1:]:
        RollNo.append(row[0])
        Company.append(row[1])
        JobRole.append(row[2])
        Package.append(row[3]) print(RollNo)
print(Company) print(JobRole)
print(Package)
```

['1', '2', '3', '4', '5', '6', '7', '8', '9', '10']
['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']

```
f3=open("C:\\Users\\Desktop\\835eds\\student_marks.csv","r") marks_dataset=[]
while True: data=f3.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', '']]

```
Roll=[] Maths=[]
Physics=[]
Chemistry=[]
Total=[] Percentage=[] for row
in marks_dataset[1:]:
        Roll.append(row[0])
        Maths.append(row[1])
        Physics.append(row[2])
        Chemistry.append(row[3])  Total.append(row[4])
        Percentage.append(row[5])
print(Roll) print(Maths) print(Physics)
print(Chemistry) print(Total)
print(Percentage)
```

['1', '2', '3', '4', '5', '6', '7', '8', '9', '10']
['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']

```
student_data=[] for i in
range(len(marks_dataset)):
        student_data.append(info_dataset[i]+placement_dataset[i]
+marks_dataset[i]) print(student_data)
```

[['Roll No', 'name', 'Gender', 'DOB', '', 'Roll No', 'Company',
'JobRole', 'Package', '', 'Roll', 'Maths', 'Physics', 'Chemistry',
'Total', 'Percentage', ''], ['1', 'John', 'Male', '05-04-1988', '',
'1', 'Infosys', 'Data Analyst', '10.2', '', '1', '55', '45', '56',
'156', '52.00', ''], ['2', 'Mayur', 'Male', '04-05-1987', '', '2',
'TCS', 'Java Developer', '9.6', '', '2', '75', '55', '55', '185', '61.67',
''], ['3', 'Mangesh', 'Male', '25-05-1989', '', '3', 'TCS',
'Data Scientist', '12.60', '', '3', '25', '54', '89', '168', '56.00',
''], ['4', 'Jessica', 'Female', '12-08-1990', '', '4', 'Infosys',
'Data Analyst', '10.2', '', '4', '78', '55', '86', '219', '73.00', ''],
['5', 'Jennifer', 'Female', '02-09-1989', '', '5', 'Oracle',
'Java Developer', '9.6', '', '5', '58', '96', '78', '232', '77.33', ''],
['6', 'Ramesh', 'Male', '03-09-1989', '', '6', 'Oracle', 'Data
Scientist', '12.60', '', '6', '88', '78', '58', '224', '74.67', ''],
['7', 'Suresh', 'Male', '04-09-1990', '', '7', 'TCS', 'Tester',
'6.50', '', '7', '56', '89', '69', '214', '71.33', ''], ['8',
'Ganesh', 'Male', '05-10-1989', '', '8', 'Infosys', 'Tester', '6.51',
'', '8', '54', '55', '88', '197', '65.67', ''], ['9', 'Komal',
'Female', '06-09-1989', '', '9', 'Mindtree', 'Database Admin', '8.30',
'', '9', '46', '66', '65', '177', '59.00', ''], ['10', 'Mayuri',
'Female', '07-02-1988', '', '10', 'Mindtree', 'Database Admin', '8.31', '', '10', '89', '87', '54', '230',
'76.67', '']]

```
studentdata=[] studentdata.append(RollNo)
studentdata.append(name)
studentdata.append(Gender)
studentdata.append(DOB)
studentdata.append(RollNo)
studentdata.append(Company)
studentdata.append(JobRole)
studentdata.append(Package)
studentdata.append(Roll) studentdata.append(Maths)
studentdata.append(Physics)
studentdata.append(Chemistry)
studentdata.append(Total)
studentdata.append(Percentage) 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', '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'], ['1', '2',
'3', '4', '5', '6', '7', '8', '9', '10'], ['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'],
['1', '2', '3', '4', '5', '6', '7', '8', '9', '10'], ['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']]

```
# fw=open("C:\\Users\\Desktop\\835eds\\ All_stud_details.csv","w")

# stastical Operations 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
of 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, 185, 168, 219, 232, 224, 214, 197, 177, 230]
Average of marks= [156, 185, 168, 219, 232, 224, 214, 197, 177, 230]

```
#max marks  print("maximum marks=",max(sum_of_marks)) maximum
```

marks= 232

```
print("minimum marks=",min(sum_of_marks)) minimum
```

marks= 156

```
print("total no of students=",len(studentdata[0])) total no of
```

students= 10

```
print("total no company=",len(studentdata[5])) total no
```

company= 10

```
print("jobrole=",len(studentdata[6])) jobrole= 10

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]