```
 from google.colab import drive
drive.mount('/content/drive')
```

```
import pandas as pd
```

```
df1=pd.read_csv("drive/My Drive/srustiii/employeee csv.csv")
df1
```

	EMPID	Gender	JobRole	MaritalStatus	DOB
0	E00001	Female	Sales Executive	Single	12-02-1987
1	E00002	Male	Research Scientist	Married	15-11-1982
2	E00003	Male	Laboratory Technician	Single	22-02-1986
3	E00004	Female	Research Scientist	Married	25-05-1977
4	E00005	Male	Laboratory Technician	Married	04-04-1995
...	...	...	...	...	...
1053	E01054	Male	Research Scientist	Married	02-03-1993
1054	E01055	Male	Healthcare Representative	Divorced	19-12-1982
1055	E01056	Male	Research Director	Divorced	08-04-1969
1056	E01057	Male	Sales Representative	Married	30-04-1972
1057	E01058	Female	Sales Executive	Single	11-09-1978

1058 rows × 5 columns

New Section

```
df2=pd.read_csv("drive/My Drive/srustiii/EmpSalDetails.csv")
df2
```

	EMPID	EducationField	Salary ($)	YearsAtCompany
0	E00001	Life Sciences	19479	6
1	E00002	Life Sciences	24907	10
2	E00003	Other	2396	0
3	E00004	Life Sciences	23159	8
4	E00005	Medical	16632	2
...	...	...	...	...
1053	E01054	Life Sciences	2721	12
1054	E01055	Life Sciences	20948	8
1055	E01056	Medical	11929	14
1056	E01057	Technical Degree	15747	3
1057	E01058	Technical Degree	17485	5

1058 rows × 4 columns

```
import pandas as pd

df2=pd.read_csv("drive/My Drive/srustiii/

df2
```

	EMPID	Gender	JobRole	MaritalStatus	DOB
0	E00001	Female	Sales Executive	Single	12-02-1987
1	E00002	Male	Research Scientist	Married	15-11-1982
2	E00003	Male	Laboratory Technician	Single	22-02-1986
3	E00004	Female	Research Scientist	Married	25-05-1977
4	E00005	Male	Laboratory Technician	Married	04-04-1995
...	...	...	...	...	...
1053	E01054	Male	Research Scientist	Married	02-03-1993
1054	E01055	Male	Healthcare Representative	Divorced	19-12-1982
1055	E01056	Male	Research Director	Divorced	08-04-1969
1056	E01057	Male	Sales Representative	Married	30-04-1972

```
finaldf=pd.merge(df1,df2,on='EMPID')
finaldf
```

	EMPID	Gender	JobRole	MaritalStatus	DOB	EducationField	Salary ($)	Y
0	E00001	Female	Sales Executive	Single	12-02-1987	Life Sciences	19479	
1	E00002	Male	Research Scientist	Married	15-11-1982	Life Sciences	24907	
2	E00003	Male	Laboratory Technician	Single	22-02-1986	Other	2396	
3	E00004	Female	Research Scientist	Married	25-05-1977	Life Sciences	23159	
4	E00005	Male	Laboratory Technician	Married	04-04-1995	Medical	16632	
...	...	...	...	...	...	...	...	

Double-click (or enter) to edit

```
finaldf.sort_values('Salary ($)',ascending=False)
```

	EMPID	Gender	JobRole	MaritalStatus	DOB	EducationField	Salary ($)	Ye
513	E00514	Male	Research Scientist	Single	03-01-1994	Medical	26999	
808	E00809	Female	Research Scientist	Divorced	28-12-1966	Life Sciences	26968	
107	E00108	Male	Sales Executive	Single	24-05-1968	Marketing	26959	
859	E00860	Female	Research Scientist	Married	19-05-1985	Life Sciences	26933	
386	E00387	Female	Laboratory Technician	Divorced	01-02-1992	Life Sciences	26914	
...	...	...	...	...	...	...	...	

```
from google.colab import drive
drive.mount('/content/drive')
```

```
Mounted at /content/drive
```

Double-click (or enter) to edit

```
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', 'Male
```

```
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']
['1', '2']
['1', '2', '3']
['1', '2', '3', '4']
['1', '2', '3', '4', '5']
['1', '2', '3', '4', '5', '6']
['1', '2', '3', '4', '5', '6', '7']
['1', '2', '3', '4', '5', '6', '7', '8']
['1', '2', '3', '4', '5', '6', '7', '8', '9']
['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', '07-02-19
```

```
file=open('/content/student_marks (1).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
```

```
Physics=Maths=[]
Chemistry=[]
Total=[]
Percentage=[]
```

```
from google.colab import drive
drive.mount('/content/drive')
```

```
Mounted at /content/drive
```

```
import pandas as pd
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])
```

```
import pandas as pd
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', '45', '75', '55', '25', '54', '78', '55', '58', '96', '88', '78', '56', '89', '54', '55', '46', '66', '89', '87', '55', '45', '75
['55', '45', '75', '55', '25', '54', '78', '55', '58', '96', '88', '78', '56', '89', '54', '55', '46', '66', '89', '87', '55', '45', '75
['56', '55', '89', '86', '78', '58', '69', '88', '65', '54', '56', '55', '89', '86', '78', '58', '69', '88', '65', '54']
['156', '185', '168', '219', '232', '224', '214', '197', '177', '230', '156', '185', '168', '219', '232', '224', '214', '197', '177', '2
['52.00', '61.67', '56.00', '73.00', '77.33', '74.67', '71.33', '65.67', '59.00', '76.67', '52.00', '61.67', '56.00', '73.00', '77.33',
```

```
# 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', 'T
```

```
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', 'Database A
['10.2', '9.6', '12.6', '10.2', '9.6', '12.6', '6.5', '6.51', '8.3', '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',
  '45',
  '75',
  '55',
  '25',
  '54',
  '78',
  '55',
  '58',
  '96',
  '88',
  '78',
  '56',
  '89',
  '54',
  '55',
  '46',
  '66',
  '89',
  '87',
  '55',
  '45',
  '75',
  '55',
  '25',
  '54',
  '78',
```

```
fw=open("/content/EmpSalDetails.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)
    row.append('\n')
```

```
    data_to_write.append(",".join(row))
```

```
data_to_write
```

```
['1,John,Male,05-04-1988,55,55,56,156,52.00,Infosys,Data Analyst,10.2,\n',
 '2,Mayur,Male,04-05-1987,45,45,55,185,61.67,TCS,Java Developer,9.6,\n',
 '3,Mangesh,Male,25-05-1989,75,75,89,168,56.00,TCS,Data Scientist,12.6,\n',
 '4,Jessica,Female,12-08-1990,55,55,86,219,73.00,Infosys,Data Analyst,10.2,\n',
 '5,Jennifer,Female,02-09-1989,25,25,78,232,77.33,Oracle,Java Developer,9.6,\n',
 '6,Ramesh,Male,03-09-1989,54,54,58,224,74.67,Oracle,Data Scientist,12.6,\n',
 '7,Suresh,Male,04-09-1990,78,78,69,214,71.33,TCS,Tester,6.5,\n',
 '8,Ganesh,Male,05-10-1989,55,55,88,197,65.67,Infosys,Tester,6.51,\n',
 '9,Komal,Female,06-09-1989,58,58,65,177,59.00,Mindtree,Database Admin,8.3,\n',
 '10,Mayuri,Female,07-02-1988,96,96,54,230,76.67,Mindtree,Database Admin,8.31,\n']
```

```
fw.writelines(data_to_write)
```

```
fw.close()
```

```
#1. Average package
package=studentdata[11:][0]
total_student=len(studentdata[11:][0])

# Converting String value to float
Num_package=[float(i) for i in package]
print('Average Package= ',sum(Num_package)/total_student)
```

```
Average Package=  9.442
```

```
# 2.Min Package
print('Minimum Package= ',min(Num_package))
```

```
Minimum Package=  6.5
```

```
# 3.Max Package
print('Minimum Package= ',max(Num_package))
```

```
Minimum Package=  12.6
```

```
# 4.Sum
print("Math Marks=",studentdata[4])
print("Physics Marks=",studentdata[5])
print("Chemistry Marks=",studentdata[6])
# Converting String value to int
Math_Marks=[int(i) for i in studentdata[4]]
Physics_Marks=[int(i) for i in studentdata[5]]
Chemistry_Marks=[int(i) for i in studentdata[6]]

#Total marks=
Totalmarks=[]
for i in range(len(studentdata[6])):
    Totalmarks.append(Math_Marks[i]+Physics_Marks[i]+Chemistry_Marks[i])
print("Total Marks=",Totalmarks)
```

```
Math Marks= ['55', '45', '75', '55', '25', '54', '78', '55', '58', '96', '88', '78', '56', '89', '54', '55', '46', '66', '89', '87', '55
Physics Marks= ['55', '45', '75', '55', '25', '54', '78', '55', '58', '96', '88', '78', '56', '89', '54', '55', '46', '66', '89', '87',
Chemistry Marks= ['56', '55', '89', '86', '78', '58', '69', '88', '65', '54', '56', '55', '89', '86', '78', '58', '69', '88', '65', '54
Total Marks= [166, 145, 239, 196, 128, 166, 225, 198, 181, 246, 232, 211, 201, 264, 186, 168, 161, 220, 243, 228]
```

```
# 5. Percentage
percentage=[round(marks/3,2) for marks in Totalmarks]
print("Percentage=",percentage)
```

```
Percentage= [55.33, 48.33, 79.67, 65.33, 42.67, 55.33, 75.0, 66.0, 60.33, 82.0, 77.33, 70.33, 67.0, 88.0, 62.0, 56.0, 53.67, 73.33, 81.6
```

```
# Count
print("No of Student=",len(studentdata[0]))
print("No of Attribute=",len(studentdata))
```

```
No of Student= 10
No of Attribute= 12
```

```
=[] Product_details
Supplier_details=dict()
Customer Details=tuple()
fp1=open("sales.csv","r")
while(True):
  data=fp1.readline()
  if(data=None):
    break;
```

```
  File "<ipython-input-4-44aa8f55d2d4>", line 3
    Customer Details=tuple()
             ^
SyntaxError: invalid syntax
```

SEARCH STACK OVERFLOW