## Practicle No.1

Name: - Suraj Didwagh

Batch:- H1

Roll No.:-811

PRN No.:- 202201040126

Q. Take/Prepare any text files for any real-life application. For Ex. "Stud.txt", "Placement.csv" and "Result. csv" files for result Analysis. Combine into "StudentDetails.csv". Perform all statistical analysis (Average, Max, Min, Count, Sum, Percentage) on it

```
import csv f1=open("C:\\Users\\Desktop\\811eds\\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\\811eds\\student_marks.csv","r")
```

## output

[['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)
OUTPUT
[['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)
```

```
OUTPUT
['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)
OUTPUT
[['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)
OUTPUT
['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)
```

OUTPUT

```
[['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', '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)
OUTPUT
[['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'],
['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)
OUTPUT
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))
print("minimum marks=",min(sum_of_marks))
print("total no of students=",len(studentdata[0]))
print("total no company=",len(studentdata[5]))
print("jobrole=",len(studentdata[6]))
per=[] for i in range(len(sum of marks)):
per.append(round((100*sum_of_marks[i]/270),2))
print("Percentage=",per)
OUTPUT
maximum marks= 232
minimum marks= 156
total no of students= 10
```

total no company= 10

jobrole= 10

Percentage= [57.78, 68.52, 62.22, 81.11, 85.93, 82.96, 79.26, 72.96, 65.56, 85.19]