Name: Abhay Isal

Roll No. =519

Batch=E1

EDS Assignment 1

1) **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**

```
#file merging and creation of csv file
file1=open("/content/stud_info2.csv", "r")
file2=open("/content/student marks1.csv","r")
file3=open("/content/stud_placement3.csv","r")


import csv
new=list(csv.reader(file1,delimiter=","))
new2=list(csv.reader(file2,delimiter=","))
new3=list(csv.reader(file3,delimiter=","))

# print(new)
#print(new2)
#print(new3)
RollNO=[]
name=[]
gender=[]
DOB=[]

for i in range(len(new)):
  RollNO.append(new[i][0])
  name.append(new[i][1])
  gender.append(new[i][2])
  DOB.append(new[i][3])
# print(RollNO)
# print(name)
# print(gender)
# print(DOB)


# # RollnO=[]
Maths=[]
Physics=[]
chemistry=[]
total=[]
```

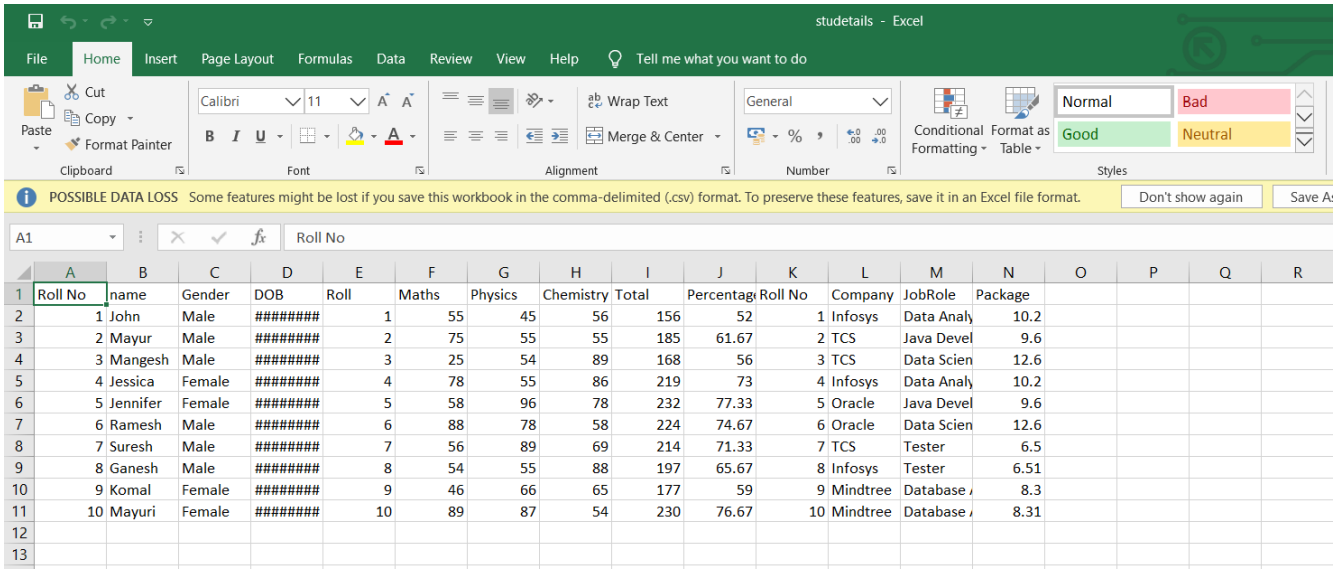
```
percentage=[]

# print(new2)
for i in range(len(new2)):
  # RollnO.append(new2[i][0])
  Maths.append(new2[i][1])
  Physics.append(new2[i][2])
  chemistry.append(new2[i][3])
  total.append(new2[i][4])
  percentage.append(new2[i][5])


# RollnO=[]
# print(Maths)
# print(Physics)
# print(chemistry)
# print(total)
# print(percentage)

Company=[]
JobRole=[]
Package=[]
# print(new3)
for i in range(len(new3)):
  # RollNO.append(new3[i][0])
  Company.append(new3[i][1])
  JobRole.append(new3[i][2])
  Package.append(new3[i][3])

# print(Company)
# print(JobRole)
# print(Package)

studetails=[]
studetails.append(RollNO)
studetails.append(name)
studetails.append(gender)
studetails.append(DOB)
studetails.append(Maths)
studetails.append(Physics)
studetails.append(chemistry)
studetails.append(total)
studetails.append(percentage)
studetails.append(Company)
studetails.append(JobRole)
studetails.append(Package)
print(studetails)
```

```
last_file=open("/content/studetails.csv",'w')
data1=csv.writer(last_file)
for i in range (len(new)):
    data_last=new[i]+new2[i]+new3[i]
    data1.writerow(data_last)



file1.close()
file2.close()
file3.close()
last_file.close()

#file merging and creation of csv file done
```

OUTPUT:-

```
[['Roll No', '1', '2', '3', '4', '5', '6', '7', '8', '9', '10'], ['name',
'John', 'Mayur', 'Mangesh', 'Jessica', 'Jennifer', 'Ramesh', 'Suresh',
'Ganesh', 'Komal', 'Mayuri'], ['Gender', 'Male', 'Male', 'Male',
'Female', 'Female', 'Male', 'Male', 'Male', 'Female', 'Female'], ['DOB',
'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'],
['Maths', '55', '75', '25', '78', '58', '88', '56', '54', '46', '89'],
['Physics', '45', '55', '54', '55', '96', '78', '89', '55', '66', '87'],
['Chemistry', '56', '55', '89', '86', '78', '58', '69', '88', '65', '54'],
['Total', '156', '185', '168', '219', '232', '224', '214', '197', '177',
'230'], ['Percentage', '52', '61.67', '56', '73', '77.33', '74.67',
'71.33', '65.67', '59', '76.67'], ['Company', 'Infosys', 'TCS', 'TCS',
'Infosys', 'Oracle', 'Oracle', 'TCS', 'Infosys', 'Mindtree', 'Mindtree'],
['JobRole', 'Data Analyst', 'Java Developer', 'Data Scientist', 'Data
Analyst', 'Java Developer', 'Data Scientist', 'Tester', 'Tester',
'Database Admin', 'Database Admin'], ['Package', '10.2', '9.6', '12.60',
'10.2', '9.6', '12.60', '6.50', '6.51', '8.30', '8.31']]
```

Final csv file:-



studetails - Excel

File Home Insert Page Layout Formulas Data Review View Help Tell me what you want to do

Cut Copy Format Painter Paste Clipboard

Calibri 11 Font

Wrap Text Merge & Center Alignment

General Number

Conditional Formatting Format as Table

Normal Bad Good Neutral Styles

POSSIBLE DATA LOSS Some features might be lost if you save this workbook in the comma-delimited (.csv) format. To preserve these features, save it in an Excel file format. Don't show again Save As

A1 Roll No

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Roll No	name	Gender	DOB	Roll	Maths	Physics	Chemistry	Total	Percentag	Roll No	Company	JobRole	Package				
2	1	John	Male	########	1	55	45	56	156	52	1	Infosys	Data Analy	10.2				
3	2	Mayur	Male	########	2	75	55	55	185	61.67	2	TCS	Java Devel	9.6				
4	3	Mangesh	Male	########	3	25	54	89	168	56	3	TCS	Data Scien	12.6				
5	4	Jessica	Female	########	4	78	55	86	219	73	4	Infosys	Data Analy	10.2				
6	5	Jennifer	Female	########	5	58	96	78	232	77.33	5	Oracle	Java Devel	9.6				
7	6	Ramesh	Male	########	6	88	78	58	224	74.67	6	Oracle	Data Scien	12.6				
8	7	Suresh	Male	########	7	56	89	69	214	71.33	7	TCS	Tester	6.5				
9	8	Ganesh	Male	########	8	54	55	88	197	65.67	8	Infosys	Tester	6.51				
10	9	Komal	Female	########	9	46	66	65	177	59	9	Mindtree	Database	8.3				
11	10	Mayuri	Female	########	10	89	87	54	230	76.67	10	Mindtree	Database	8.31				
12																		
13																		

```
#Performing all statistical analysis (Average, Max, Min, Count, Sum,
Percentage)


#sum
Mathsmarks = [55,75,25,78,58,88,56,54,46,89]
total = 0

for i in range(0, len(Mathsmarks)):
    total = total + Mathsmarks[i]

print("Sum of all marks: ", total)

#avg

avg= total/len(Maths_marks)
print("average marks scored in maths:",avg)


#max marks
print("Maximum Marks",max(Maths_marks))
```

```
#min marks
print("Minimum Marks=",min(Maths_marks))


#percentage
percent= total/1000*100
print ("percentage passing in maths:",percent)




#use of count
company=['Infosys', 'TCS', 'TCS', 'Infosys', 'Oracle', 'Oracle', 'TCS',
'Infosys', 'Mindtree', 'Mindtree']
print("no. of stu placed in TCS=")
print(company.count('TCS'))

print("no. of stu placed in infosys=")
print(company.count('Infosys'))

print("no. of stu placed in Mindtree=")
print(company.count('Mindtree'))

print("no. of stu placed in oracle=")
print(company.count('Oracle'))
```

OUTPUT:-

```
Sum of all marks:  624
average marks scored in maths: 62.4
Maximum Marks 89
Minimum Marks= 25
percentage passing in maths: 62.4
no. of stu placed in TCS=
3
no. of stu placed in infosys=
3
no. of stu placed in Mindtree=
2
no. of stu placed in oracle=
2
```