EDS
Practical No.1

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Statement:

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

First of all two CSVs need to be created.

	A	B	C	D
1	serial	names	roll	
2	1	John	1001	
3	2	Jeff	1006	
4	3	Kimmy	1009	
5	4	Mike	1003	
6	5	Crusader	1012	
7				

	A	B	C
1	serial	cgpa	
2	1	6.8	
3	2	7.9	
4	3	9.4	
5	4	7.69	
6	5	10	
7			

Then this two CSVs will be merged and named as StudentDetails.csv

Code to merge CSVs:

```
[15] #code to merge two csvs
     import pandas as pd
     df = pd.read_csv(r'/content/drive/MyDrive/EDS/studroll.csv')
     df1= pd.read_csv(r'/content/drive/MyDrive/EDS/studresult.csv')
     StudentDetails= pd.merge(df,df1)
     StudentDetails.to_csv('StudentDetails.csv', index=False)
     df2 = pd.read_csv(r'StudentDetails.csv')
     display(df2)
```

Output:

	serial	names	roll	cgpa
0	1	John	1001	6.80
1	2	Jeff	1006	7.90
2	3	Kimmy	1009	9.40
3	4	Mike	1003	7.69
4	5	Crusader	1012	10.00

Statistical Analysis:-

1. Mean

```
df2 = pd.read_csv(r'StudentDetails.csv')
df2['cgpa'].mean()
```

```
8.358
```

2. Max

```
[18] df2 = pd.read_csv(r'StudentDetails.csv')
     df2['cgpa'].max()
```

```
10.0
```

3. Min

```
[19] df2 = pd.read_csv(r'StudentDetails.csv')
     df2['cgpa'].min()

     6.8
```

4. Count

```
[20] df2 = pd.read_csv(r'StudentDetails.csv')
     df2['cgpa'].count()

     5
```

5. Sum

```
[21] df2 = pd.read_csv(r'StudentDetails.csv')
     df2['cgpa'].sum()

     41.790000000000006
```

Links

CSV1 (studroll):
https://drive.google.com/file/d/1-YQu9wLayCUYkTcC94jdoX-yzFaecfkX/view?usp=sharing

CSV2 (studresult):
https://drive.google.com/file/d/12ye7qI0qHsMEfrQ3cCocuZI_YveEsBHj/view?usp=sharing

Colab link for Practical 1:
https://colab.research.google.com/drive/1CIw0Adr-YmosIKQiC-Ec4yPWwIKjGI_M?usp=sharing

THANK YOU!