Practical 1

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Batch: C2

Problem 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.

Files:

stud_result.csv 342_CGPA.csv × 342_

1 to 3 of 3 entries Filter

1	A	Namrata	9
2	B	Ashutosh	8
3	C	Divya	10
4	D	Gungun	7

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stud_result.csv 342_percentage.csv ×

1 to 3 of 3 entries Filter

1	Namrata	90
2	Ashutosh	80
3	Divya	100
4	Gungun	70

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Merged file:

stud_result.csv × 342_percentage.csv •••

1 to 3 of 3 entries Filter

1	A	Namrata	9	1	Namrata	90
2	B	Ashutosh	8	2	Ashutosh	80
3	C	Divya	10	3	Divya	100
4	D	Gungun	7	4	Gungun	70

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Program:

```
import csv
def top_4_student(d3):
  d3.sort(key = lambda x: int(x[3]),reverse=True)
  print("sorted Data:",d3)

  print("\n\nstudent 1",d3[0][1])
  print(" student 2",d3[1][1])
  print(" student 3",d3[2][1])
  print("student 4",d3[3][1])


f1 = open("/content/342_CGPA.csv","r")
f2 = open("/content/342_percentage.csv","r")
f3 = open("stud_result.csv","w")

d1=list(csv.reader(f1,delimiter=','))
d2=list(csv.reader(f2,delimiter=','))

print("\n\nFile1 Contents:",d1)
print("\n\nFile2 Contents:",d2)
d3 = []
for i in range(len(d1)):
  d3.append(d1[i] + d2[i])

print(d3)
```

```
cw = csv.writer(f3)
cw.writerows(d3)

top_4_student(d3)

f1.close()
f2.close()
f3.close()

result=[]
with open('/content/stud_result.csv',mode="r")as file:
  csvFile = csv.reader(file)

  for lines in csvFile:
    result.append(int(lines[]))
    print("Maximum",max(result))
    print("Minimum:",min(result))
    print("Total is : ",sum(result))
    print("average is:",sum(result)/len(result))
```

Output:

```
File1 Contents: [['1', 'A', 'Namrata', '9'], ['2', 'B', 'Ashutosh', '8'],
['3', 'C', 'Divya', '10'], ['4', 'D', 'Gungun', '7']]


File2 Contents: [['1', 'Namrata', '90'], ['2', 'Ashutosh', '80'], ['3',
'Divya', '100'], ['4', 'Gungun', '70']]
[['1', 'A', 'Namrata', '9', '1', 'Namrata', '90'], ['2', 'B', 'Ashutosh',
'8', '2', 'Ashutosh', '80'], ['3', 'C', 'Divya', '10', '3', 'Divya',
'100'], ['4', 'D', 'Gungun', '7', '4', 'Gungun', '70']]
sorted Data: [['3', 'C', 'Divya', '10', '3', 'Divya', '100'], ['1', 'A',
'Namrata', '9', '1', 'Namrata', '90'], ['2', 'B', 'Ashutosh', '8', '2',
'Ashutosh', '80'], ['4', 'D', 'Gungun', '7', '4', 'Gungun', '70']]


student 1 C
 student 2 A
 student 3 B
student 4 D
Maximum 9
Minimum: 9
Total is :  9
average is: 9.0
Maximum 9
Minimum: 8
Total is :  17
average is: 8.5
Maximum 10
```

```
Minimum: 8
Total is :  27
average is: 9.0
Maximum 10
Minimum: 7
Total is :  34
average is: 8.5
```