PRACTICAL :1

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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:

666_cgpa.csv × per_666.csv stuinfo.csv •••

1 to 3 of 3 entries Filter

1	A	GUNGUN	9
2	B	SUMATI	8
3	C	DIVYA	7
4	D	YASH	6

Show 10 per page

666_cgpa.csv per_666.csv × stuinfo.csv •••

1 to 3 of 3 entries Filter

1	A	GUNGUN	90
2	B	SUMATI	80
3	C	DIVYA	70
4	D	YASH	60

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MERGED FILE :

stuinfo.csv ×

1 to 3 of 3 entries Filter

1	A	GUNGUN	9	1	A	GUNGUN	90
2	B	SUMATI	8	2	B	SUMATI	80
3	C	DIVYA	7	3	C	DIVYA	70
4	D	YASH	6	4	D	YASH	60

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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 Gungun",d3[0][1])
  print(" Sumati",d3[1][1])
  print(" Divya",d3[2][1])
  print(" Yash",d3[3][1])


f1 = open("/content/666_cgpa.csv","r")
f2 = open("/content/per_666.csv","r")
f3 = open("stuinfo.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()

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

  for lines in csvFile:
    res.append(int(lines[3]))
    print("Maximum",max(res))
    print("Minimum:",min(res))
    print("Total is : ",sum(res))
    print("average is:",sum(res)/len(res))
```

output:

File1 Contents: [['1', 'A', 'GUNGUN', '9'], ['2', 'B', 'SUMATI', '8'], ['3', 'C', 'DIVYA', '7'], ['4', 'D', 'YASH', '6']]

File2 Contents: [['1', 'A', 'GUNGUN', '90'], ['2', 'B', 'SUMATI', '80'], ['3', 'C', 'DIVYA', '70'], ['4', 'D', 'YASH', '60']]
[['1', 'A', 'GUNGUN', '9', '1', 'A', 'GUNGUN', '90'], ['2', 'B', 'SUMATI', '8', '2', 'B', 'SUMATI', '80'], ['3', 'C', 'DIVYA', '7', '3', 'C', 'DIVYA', '70'], ['4', 'D', 'YASH', '6', '4', 'D', 'YASH', '60']]
sorted Data: [['1', 'A', 'GUNGUN', '9', '1', 'A', 'GUNGUN', '90'], ['2', 'B', 'SUMATI', '8', '2', 'B', 'SUMATI', '80'], ['3', 'C', 'DIVYA', '7', '3', 'C', 'DIVYA', '70'], ['4', 'D', 'YASH', '6', '4', 'D', 'YASH', '60']]

Gungun A
Sumati B
Divya C
Yash D
Maximum 9
Minimum: 9
Total is : 9
average is: 9.0
Maximum 9
Minimum: 8
Total is : 17
average is: 8.5
Maximum 9
Minimum: 7
Total is : 24
average is: 8.0
Maximum 9
Minimum: 6
Total is : 30
average is: 7.5
