

PRACTICAL 1

Name : **SUPRIYA KUNDLIK MASKAR**

Roll no : **336**

Batch : **C2**

Prn : **202201040049**

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 :

Supriya	c	9
Tanvi	f	9
Shruti	f	8
Rupal	f	8

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student data.csv		student result.csv	>	...
1 to 3 of 3 entries		Filter		
Supriya	9			
Tanvi	9			
Shruti	8			
Rupal	8			

```
1 1,Sumati,C,10,1,Sumati,C,99
2 2,Shruti,F,8,2,Shruti,F,97
3 3,Tanvi,F,9,3,Tanvi,F,98
4 4,Supriya,C,10,4,Supriya,C,98
```

Programme :

```

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/336_cgpa.csv","r")
f2 = open("/content/336_per.csv","r")
f3 = open("studentinfo","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/studentinfo',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', 'Sumati', 'C', '10'], ['2', 'Shruti', 'F', '8'], ['3', 'Tanvi', 'F', '9'], ['4', 'Supriya', 'C', '10']]

File2 Contents: [['1', 'Sumati', 'C', '99'], ['2', 'Shruti', 'F', '97'], ['3', 'Tanvi', 'F', '98'], ['4', 'Supriya', 'C', '98']]

sorted Data: [['1', 'Sumati', 'C', '10', '1', 'Sumati', 'C', '99'], ['2', 'Shruti', 'F', '8', '2', 'Shruti', 'F', '97'], ['3', 'Tanvi', 'F', '9', '3', 'Tanvi', 'F', '98'], ['4', 'Supriya', 'C', '10', '4', 'Supriya', 'C', '98']]

sorted Data: [['1', 'Sumati', 'C', '10', '1', 'Sumati', 'C', '99'], ['4', 'Supriya', 'C', '10', '4', 'Supriya', 'C', '98'], ['3', 'Tanvi', 'F', '9', '3', 'Tanvi', 'F', '98'], ['2', 'Shruti', 'F', '8', '2', 'Shruti', 'F', '97']]

student 1 Sumati

student 2 Supriya

student 3 Tanvi

student 4 Shruti

Maximum 10

Minimum: 10

Total is : 10

average is: 10.0

Maximum 10

Minimum: 8

Total is : 18

average is: 9.0

Maximum 10

Minimum: 8

Total is : 27

average is: 9.0

Maximum 10

Minimum: 8

Total is : 37

average is: 9.25
