

EDS PRACTICAL 1

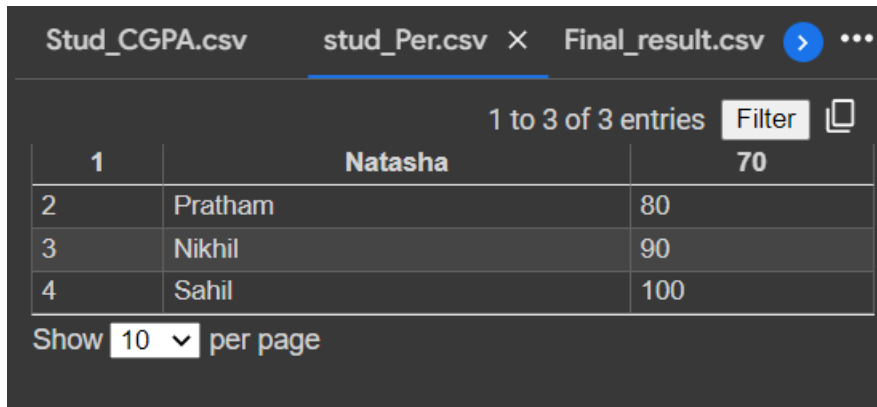
Name: Dnyaneshwar Fulchand Sirsat

Roll no: 360

Batch: C3

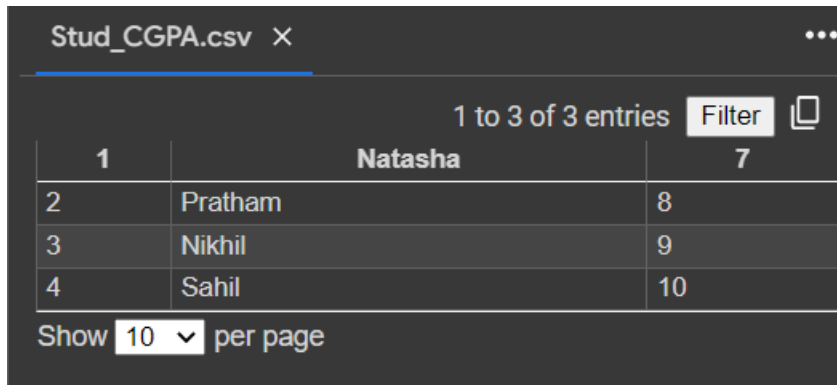
Problem Statement: Take/Prepare any text files for any real-life application. For Ex. "Stud.txt", "Placement.csv" and "Result.csv" files for result Analysis. Combine into "StudentDetails.csv". Perform all statistical analysis (Average, Max, Min, Count, Sum, Percentage) on it.

Files:



The screenshot shows a CSV viewer interface with three tabs: 'Stud_CGPA.csv', 'stud_Per.csv', and 'Final_result.csv'. The 'Final_result.csv' tab is active. It displays a table with 3 entries. The table has three columns: an index column (1, 2, 3, 4), a name column (Natasha, Pratham, Nikhil, Sahil), and a score column (70, 80, 90, 100). The interface includes a 'Filter' button, a 'Copy' icon, and a 'Show 10 per page' dropdown.

1	Natasha	70
2	Pratham	80
3	Nikhil	90
4	Sahil	100



The screenshot shows a CSV viewer interface with one tab: 'Stud_CGPA.csv'. It displays a table with 3 entries. The table has three columns: an index column (1, 2, 3, 4), a name column (Natasha, Pratham, Nikhil, Sahil), and a score column (7, 8, 9, 10). The interface includes a 'Filter' button, a 'Copy' icon, and a 'Show 10 per page' dropdown.

1	Natasha	7
2	Pratham	8
3	Nikhil	9
4	Sahil	10

Merged File:

Final_result.csv ×					
1 to 3 of 3 entries <input type="text" value="Filter"/>					
1	Natasha	7	1	Natasha	70
2	Pratham	8	2	Pratham	80
3	Nikhil	9	3	Nikhil	90
4	Sahil	10	4	Sahil	100
Show 10 per page					

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/Stud_CGPA.csv","r")
f2 = open("/content/stud_Per.csv","r")
f3 = open("Final_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()

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

    for lines in csvFile:
        res.append(int(lines[2]))
        print("Maximum",max(res))
        print("Minimum:",min(res))
        print("Total is : ",sum(res))
        print("average is:",sum(res)/len(res))

```

Output:

```

File1 Contents: [['\ufeff1', 'Natasha', '7'], ['2', 'Pratham', '8'],
['3', 'Nikhil', '9'], ['4', 'Sahil', '10']]

```

```

File2 Contents: [['1', 'Natasha', '70'], ['2', 'Pratham', '80'],
['3', 'Nikhil', '90'], ['4', 'Sahil', '100']]
[['\ufeff1', 'Natasha', '7', '1', 'Natasha', '70'], ['2', 'Pratham',
'8', '2', 'Pratham', '80'], ['3', 'Nikhil', '9', '3', 'Nikhil',
'90'], ['4', 'Sahil', '10', '4', 'Sahil', '100']]
sorted Data: [['4', 'Sahil', '10', '4', 'Sahil', '100'], ['3',
'Nikhil', '9', '3', 'Nikhil', '90'], ['2', 'Pratham', '8', '2',
'Pratham', '80'], ['\ufeff1', 'Natasha', '7', '1', 'Natasha', '70']]

```

```

Student 1 Sahil
Student 2 Nikhil
Student 3 Pratham
Student 4 Natasha
Maximum 7
Minimum: 7
Total is : 7
average is: 7.0
Maximum 8
Minimum: 7
Total is : 15
average is: 7.5
Maximum 9
Minimum: 7
Total is : 24
average is: 8.0
Maximum 10
Minimum: 7
Total is : 34
average is: 8.5

```