

## ASSIGNMENT-1

BATCH:G3

ROLL NO:747

### 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

### LINK:

<https://colab.research.google.com/drive/146yLKycYML0G2eF2xAsUVabbxe7-kxtG#scrollTo=jrF3c40w6pq0>

### CODE:

```
import csv
f1=open("/content/sample_data/747assign 1/STUDENTDETAILS - Sheet1.csv",'r')
f2=open("/content/sample_data/747assign 1/PLACEMENT - Sheet1.csv",'r')
f3=open("/content/sample_data/747assign 1/GRADES - Sheet1.csv",'r')
f4=open("/content/FINAL.csv",'w')

#reading the files
data1=list(csv.reader(f1, delimiter=','))
data2=list(csv.reader(f2, delimiter=','))
data3=list(csv.reader(f3, delimiter=','))

#printing the file contents
print("THE STUDENT DETAIL FILE CONTENTS ARE:",data1,"\n")
print("THE PLACEMENT FILE DETAILS ARE:",data2,"\n")
print("THE GRADES FILE DETAILS ARE:",data3,"\n")

#merging files
data4=[]
for i in range(len(data1)):
    data4.append(data1[i]+data2[i]+data3[i])
    cf4=csv.writer(f4)
    cf4.writerow(data4)
print ("\n\nThe merged file is:",data4)

#extracting and printing salary data
SALARY=[]
for i in range(1,len(data2)):
    SALARY.append(int(data2[i][2]))
print("\nThe salary data is:")
for i in SALARY:
```

```

print(i)

#extracting and printing grades data
GRADES=[]
for i in range(1,len(data3)):
    GRADES.append(data3[i][1])
print("\nThe salary data is:")
for i in SALARY:
    sum+=i
print("The average salary is:",sum/len(SALARY))

#max and min salary and salary
print("\nThe max salary is:",max(SALARY))
print("\nThe min salary is:",min(SALARY))
print("\nThe highest grade is:",max(GRADES))
print("\nThe lowest grade is:",min(GRADES))

#avg salary
sum=0
for i in SALARY:
    sum+=i
print("The average salary is:",sum/len(SALARY))

#function to display top 5 salaries in the file
def top5sal(data4):
    data4.sort(key=lambda x: x[5], reverse=True)
    print("\nTop 5 salary records are:")
    for i in range(5):
        print(data4[i+1])

top5sal(data4) #calling the function

#closing the file
f1.close()
f2.close()
f3.close()
f4.close()

```

## OUTPUT

My Drive - Google Drive

Untitled1.ipynb - Colaboratory

EDS CS 104: Practical No 1 Subm

colab.research.google.com/drive/146yLKycYMOLOG2eF2xAsUVabbxe7-kxtG#scrollTo=jrF3c40w6pq0

Files

..

.config

sample\_data

FINAL.csv

+ Code + Text

FINAL.csv

1 to 10 of 65 entries

Copy table

CSV JSON Markdown

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NAME,ROLL NO,GENDER,BATCH,ROLL NO,COMPANY NAME,SALARY,ROLL NO,CORE,PSYCHOLOGY,ECONOMICS  
NAME,ROLL NO,GENDER,BATCH,ROLL NO,COMPANY NAME,SALARY,ROLL NO,CORE,PSYCHOLOGY,ECONOMICS  
Vaishnavvi,701,F,G3,701,LG,1000000,701,AB,DD,CC  
NAME,ROLL NO,GENDER,BATCH,ROLL NO,COMPANY NAME,SALARY,ROLL NO,CORE,PSYCHOLOGY,ECONOMICS

NAME	ROLL NO	GENDER	BATCH	ROLL NO	COMPANY NAME	SALARY	ROLL NO	CORE	PSYCHOLOGY	ECONOMICS
NAME	ROLL NO	GENDER	BATCH	ROLL NO	COMPANY NAME	SALARY	ROLL NO	CORE	PSYCHOLOGY	ECONOMICS
Vaishnavvi	701	F	G3	701	LG	1000000	701	AB	DD	CC
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Vaishnavvi	701	F	G3	701	LG	1000000	701	AB	DD	CC
Shruti	702	F	G3	702	PANASONIC	2000000	702	BB	BC	AB
NAME	ROLL NO	GENDER	BATCH	ROLL NO	COMPANY NAME	SALARY	ROLL NO	CORE	PSYCHOLOGY	ECONOMICS
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Shruti	702	F	G3	702	PANASONIC	2000000	702	BB	BC	AB
Shruti	703	F	G3	703	HITACHI	1500000	703	BC	EE	EE
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