

ASSIGNMENT-1

G4 BATCH

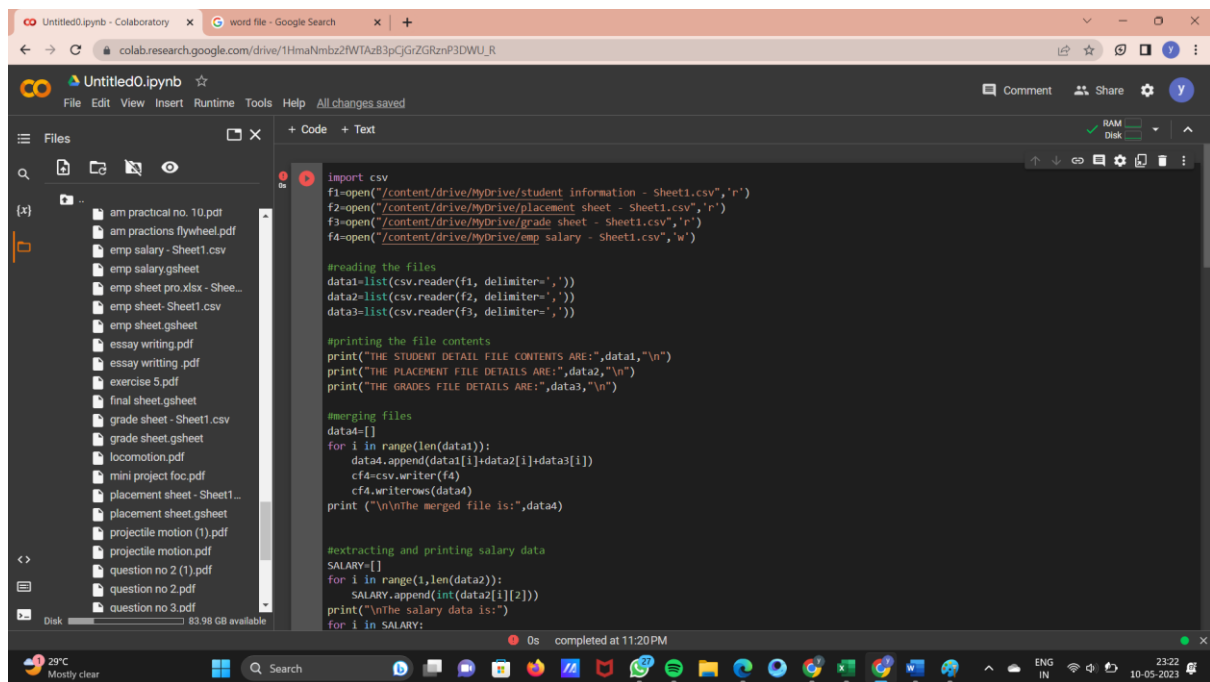
ROLL NO 768

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/1HmaNmbz2fWTAzB3pCjGrZGRznP3DWU_R?usp=sharing

INPUT-



The screenshot displays a Google Colaboratory notebook interface. On the left, a file explorer shows a directory containing various PDF and CSV files, including 'am practical no. 10.pdf', 'am practions flywheel.pdf', 'emp salary - Sheet1.csv', 'emp salary.gsheet', 'emp sheet pro.xlsx - Shee...', 'emp sheet - Sheet1.csv', 'emp sheet.gsheet', 'essay writing.pdf', 'essay writing .pdf', 'exercise 5.pdf', 'final sheet.gsheet', 'grade sheet - Sheet1.csv', 'grade sheet.gsheet', 'locomotion.pdf', 'mini project foc.pdf', 'placement sheet - Sheet1...', 'placement sheet.gsheet', 'projectile motion (1).pdf', 'projectile motion.pdf', 'question no 2 (1).pdf', and 'question no 3.pdf'. The main workspace shows a Python script with the following code:

```
import csv
f1=open("/content/drive/MyDrive/student information - Sheet1.csv","r")
f2=open("/content/drive/MyDrive/placement sheet - Sheet1.csv","r")
f3=open("/content/drive/MyDrive/grade sheet - Sheet1.csv","r")
f4=open("/content/drive/MyDrive/emp salary - Sheet1.csv","r")

#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.writerows(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("\n\nThe salary data is:")
for i in SALARY:
```

The notebook status bar at the bottom indicates '0s completed at 11:20 PM'. The system tray shows a temperature of 29°C, 'Mostly clear' weather, and the date '10-05-2023'.

The screenshot shows a Jupyter Notebook titled 'Untitled0.ipynb' in a web browser. The left sidebar displays a file explorer with various PDF and CSV files. The main area contains the following Python code:

```
#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(int(data3[i][1]))
print("\nthe salary data is:")
for i in SALARY:
    print(i)

#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=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)
```

The bottom status bar indicates '0s completed at 11:20 PM'.

The screenshot shows the same Jupyter Notebook interface, but with a different code block. The code is as follows:

```
print("\nthe salary data is:")
for i in SALARY:
    print(i)

#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=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()
```

The bottom status bar indicates '0s completed at 11:20 PM'.

OUTPUT-

Untitled0.ipynb - Colaboratory

word file - Google Search

colab.research.google.com/drive/1HimaNmbz2WTAz83pCjGrZGRznF3DWU_R

File Edit View Insert Runtime Tools Help All changes saved

Comment Share

RAM Disk

Files

- am practical no. 10.pdf
- am practions flywheel.pdf
- emp salary - Sheet1.csv
- emp salary.gsheet
- emp sheet pro.xlsx - Shee...
- emp sheet - Sheet1.csv
- emp sheet.gsheet
- essay writing .pdf
- essay writing .pdf
- exercise 5.pdf
- final sheet.gsheet
- grade sheet - Sheet1.csv
- grade sheet.gsheet
- locomotion.pdf
- mini project foc.pdf
- placement sheet - Sheet1...
- placement sheet.gsheet
- projectile motion (1).pdf
- projectile motion.pdf
- question no 2 (1).pdf
- question no 2.pdf
- question no 3.pdf

Disk 83.98 GB available

+ Code + Text

```
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()
```

THE STUDENT DETAIL FILE CONTENTS ARE: [['NAME', 'ROLL NO', 'GENDER', 'BATCH'], ['Priyali', '201', 'F', 'B1'], ['Sumitra', '202', 'F', 'B2'], ['N...

THE PLACEMENT FILE DETAILS ARE: [['ROLL NO', 'COMPANY NAME', 'SALARY'], ['201', 'LG', '1000000'], ['202', 'PANASONIC', '2000000'], ['203', 'HITAC...

THE GRADES FILE DETAILS ARE: [['ROLL NO', 'CORE', 'PSYCHOLOGY', 'ECONOMICS'], ['201', 'AB', 'DO', 'CC'], ['202', 'BB', 'BC', 'AB'], ['203', 'BC',...

The merged file is: [['NAME', 'ROLL NO', 'GENDER', 'BATCH', 'ROLL NO', 'COMPANY NAME', 'SALARY', 'ROLL NO', 'CORE', 'PSYCHOLOGY', 'ECONOMICS'], [

The salary data is:

1000000
2000000
1500000
3500000
4000000
100000
2000000
2500000
1700000
1900000

0s completed at 11:20 PM

29°C Mostly clear

Search

ENG IN

23:23 10-05-2023