ASSIGNMENT-1

B4 BATCH ROLL NO:267

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/18TSkq5wO-Yd6CjlBRexDenF 1Qd WjN05?usp=sharing

CODE:

```
import csv
f1=open("/content/STUDENTDETAILS.csv",'r')
f2=open("/content/PLACEMENT.csv",'r')
f3=open("/content/GRADES111.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.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("\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)
  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:

```
The salary data is:
1000000
2000000
1500000
3500000
4000000
100000
2000000
2500000
1700000
1900000
The max salary is: 4000000
The min salary is: 100000
The highest grade is: 100
The lowest grade is: 65
The average salary is: 2020000.0
Top 5 salary records are:
['Aswini', '204', 'F', 'B4', '204', 'WOLKSWAGEN', '3500000', '204', '69', '78', '69']
['Kedar', '207', 'M', 'B3', '207', 'UNILIVER INDIA', '2000000', '207', '96', '99', '91']
['Aaditya', '205', 'M', 'B1', '205', 'TATA', '4000000', '205', '99', '65', '98']
['Darshan', '210', 'M', 'B4', '210', 'RELIANCE ', '1900000', '210', '65', '98', '99']
['Sumitra', '202', 'F', 'B2', '202', 'PANASONIC', '20000000', '202', '95', '68', '65']
```