Assignment No: 1

Name: Tanvi Dattatray Jadhav

Roll No: 771

Div: G(G4)

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import csv
f1=open("/content/sample_data/STUDENTDETAILS - Sheet1.csv",'r')
f2=open("/content/sample_data/PLACEMENT-Sheet 1.csv",'r')
f3=open("/content/sample_data/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.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:
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  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 STUDENT DETAIL FILE CONTENTS ARE: [['ROLL NO', 'CORE', 'PSYCHOLOGY', 'ECONOMICS'], ['201', 'AB', 'DD', 'CC'

THE PLACEMENT FILE DETAILS ARE: [['ROLL NO', 'COMPANY NAME', 'SALARY'], ['201', 'LG', '1000000'], ['202', 'PANA

THE GRADES FILE DETAILS ARE: [['NAME', 'ROLL NO', 'GENDER', 'BATCH'], ['Shreya', '201', 'F', 'B1'], ['Mohan', '

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

The salary data is:
1000000
2000000
1500000
3500000
4000000
100000
2000000
2500000
1700000
1900000

The salary data is:
1000000
2000000
1500000
3500000
4000000
100000
```