Name: Tushar Najawan

Roll no: 266

Division: B(4) Batch: 4

PRN no: 202201070092

EDS Assignment 1

Problem statement: Take/Prepare any text files for any real-life application. For Ex. “emp.txt”, “salary.csv” and “job title. csv” files for result Analysis. Combine into “EmployeeID.csv”. Perform all statistical analysis (Average, Max, Min, Count, Sum, Percentage) on it.

#Source code:

```
import csv

#Opening the csv files
f1=open('/content/employeeID(279).csv','r')
f2=open('/content/employeeID(279)(1).csv','r')
f3=open('/content/merge(279).csv','w')

#Reading the csv files
A1=list(csv.reader(f1,delimiter=','))
A2=list(csv.reader(f2,delimiter=','))

#Printing the file contents
print('The Employee file contents are:',A1)
print('\nThe Employee experience file contents are:',A2)

#Merging two files into one
A3=[]
for i in range(len(A2)):
  A3.append(A1[i]+A2[i])
  cf3=csv.writer(f3)
  cf3.writerows(A3)
print('\nThe merged data is:',A3)

#Extracting and printing salary data
sal=[]
```

```
for i in range(1,len(A1)):
  sal.append(int(A3[i][4]))
print('\nThe salary data is:')
for i in sal:
  print('\n',i)

#Finding max and min salary
print('\nThe maximum salary is:',max(sal))
print('\nThe minimum salary is:',min(sal))

#Average salary
sum=0
for i in sal:
  sum=sum+i
print('\nThe average salary is:',sum/len(sal))

#Closing the files
f1.close()
f2.close()
f3.close()
```

#Output:

```
The Employee file contents are: [['ID', 'Name', 'Gender', 'Age', 'Salary'], ['1', 'John', 'Male', '25', '50000'], ['2', 'Emily', 'Female', '28', '80000'], ['3', 'Michael', 'Male', '32', '70000'], ['4', 'Sarah', 'Female', '27', '60000'], ['5', 'David', 'Male', '30', '90000'], ['6', 'Olivia', 'Female', '24', '55000'], ['7', 'Daniel', 'Male', '29', '75000'], ['8', 'Sophia', 'Female', '26', '65000'], ['9', 'Emma', 'Female', '31', '85000'], ['10', 'James', 'Male', '33', '95000']]

The Employee experience file contents are: [['Experience', 'Designation'], ['7', 'Senior Developer'], ['7', 'Project Manager'], ['7', 'Software Engineer'], ['7', 'Team Lead'], ['7', 'Analyst'], ['7', 'Software Engineer'], ['7', 'CTO'], ['7', 'Software Engineer'], ['7', 'Software Engineer'], ['7', 'QA Engineer']]

The merged data is: [['ID', 'Name', 'Gender', 'Age', 'Salary', 'Experience', 'Designation'], ['1', 'John', 'Male', '25', '50000', '7', 'Senior Developer'], ['2', 'Emily', 'Female', '28', '80000', '7', 'Project Manager'], ['3', 'Michael', 'Male', '32', '70000', '7', 'Software Engineer'], ['4', 'Sarah', 'Female', '27', '60000', '7', 'Team Lead'], ['5', 'David', 'Male', '30', '90000', '7', 'Analyst'], ['6', 'Olivia', 'Female', '24', '55000', '7', 'Software Engineer'], ['7', 'Daniel', 'Male', '29', '75000', '7', 'CTO'],
```

['8', 'Sophia', 'Female', '26', '65000', '7', 'Software Engineer'], ['9', 'Emma', 'Female', '31', '85000', '7', 'Software Engineer'], ['10', 'James', 'Male', '33', '95000', '7', 'QA Engineer']]

The salary data is: 50000 80000 70000 60000 90000 55000 75000 65000 85000 95000

The maximum salary is: 95000

The minimum salary is: 50000

The average salary is: 72000.0