

```
import java.io.File;

import java.io.FileNotFoundException;

import java.util.Scanner;


public class App {

    public static void main(String[] args) {

        try {

            String data = new String("");

            File salaryTxt = new File("Salary.txt");

            Scanner salaryReader = new Scanner(salaryTxt);

            while (salaryReader.hasNextLine()) {

                data += salaryReader.nextLine();

            }

            String[] dataList = data.split(" ");


            double totalAsst = getTotal(dataList, "assistant");

            double totalAssc = getTotal(dataList, "associate");

            double totalFull = getTotal(dataList, "full");

            double totalAll = totalAssc + totalAssc + totalFull;

            double avgAsst = getAverage(dataList, "assistant");

            double avgAssc = getAverage(dataList, "associate");

            double avgFull = getAverage(dataList, "full");

            double avgAll = totalAll/1000;


            System.out.printf("Total salary for assistant professor is %.2f\n",totalAsst);

            System.out.printf("Total salary for associate professor is %.2f\n",totalAssc);

            System.out.printf("Total salary for full professor is %.2f\n",totalFull);

            System.out.printf("Total salary for all professor is %.2f\n",totalAll);

            System.out.println("-----");

            System.out.printf("Average salary for assistant professor is %.2f\n",avgAsst);

            System.out.printf("Average salary for associate professor is %.2f\n",avgAssc);

            System.out.printf("Average salary for full professor is %.2f\n",avgFull);

            System.out.printf("Average salary for all professor is %.2f\n",avgAll);

            salaryReader.close();

        } catch (FileNotFoundException e) {

            System.out.println("An error occurred.");

        }

    }

}
```

```
e.printStackTrace();  
  
}  
  
}  
  
public static double getTotal(String[] dataList, String rank){  
  
    double total = 0;  
  
    for(int i=2;i<dataList.length;i+=4){  
  
        if(dataList[i].compareTo(rank)==0){  
  
            total += Double.parseDouble(dataList[i+1]);  
  
        }  
  
    }  
  
    return total;  
  
}  
  
public static double getAverage(String[] dataList, String rank){  
  
    double total = 0;  
  
    int count = 0;  
  
    for(int i=2;i<dataList.length;i+=4){  
  
        if(dataList[i].compareTo(rank)==0){  
  
            count++;  
  
            total += Double.parseDouble(dataList[i+1]);  
  
        }  
  
    }  
  
    return total/count;  
  
}  
}
```