HW6 Alex Manasoiu & Jack Forte

Part A Tests

Test 1:

```
PS C:\Users\flex> & 'C:\Program Files\Java\jdk-17.0.5\bin\java.exe loyeefleport'
Enter the name of the file: Employeeflecords.txt fiverage salary per employee is $100000.0
The highest salary is $150000.0
The following had the highest salary:
Name: flaron Williams
Employee ID: GUU345
Salary: 150000.0
Year of Hire: 2005
The salary is $50000.0 above the average.

The rest performed as follows:
Name: Jane Smith
Employee ID: fBC123
Salary: 50000.0
Year of Hire: 2002
The salary is $50000.0 below the average.

Name: John Doe
Employee ID: XYZ123
Salary: 100000.0
Year of Hire: 2012
The salary is average.
PS C:\Users\flex>
```

Test 2:

```
PS C:\Lisers\filex\ & 'C:\Frogram Files\Java\jdk-17.0.5\bin\java.exe' '-YX:+ShowCodeDetailsInE)
loyeeReport'
Enter the name of the file: record_1.txt
fiverage salary per employee is $90002.2
The highest salary is $150001.0
The following had the highest salary:
Hame: fortnite
Employee ID: FDISI
Salary: 150001.0
Year of Hire: 2000
The salary is $59998.797 above the average.

The rest performed as follows:
Hame: Keanu reeves
Employee ID: FBC123
Salary: 50000.0
Year of Hire: 2002
The salary is $40002.203 below the average.
Hame: coursehero
Employee ID: XY2123
Salary: 100000.0
Year of Hire: 2012
The salary is $9997.797 above the average.
Hame: chegg
Employee ID: GUU345
Salary: 150000.0
Year of Hire: 2005
The salary is $59997.797 above the average.

Name: chegg
Temployee ID: FIS108
Salary: 150000.0
Year of Hire: 1099
The salary is $89992.2 below the average.
```

Part A (Continued)

Test 3:

```
F5 C:\Users\flex\ & 'C:\Program Files\Java\jdk-17.0.5\bin\java.exe' '-\frac{\gamma}{i}:+\Sh\logsefiepor'' Enter the name of the file: record_2.txt
fluerage salary per employee is $1.0432377E13
The highest salary is $3.12958706E13
The following had the highest salary:
Name: jeff
Employee ID: REC123
Salary: 31295870599168.0
Year of Hire: 2002
The salary is $2.08634936E13 above the average.

Name: fortyfive
Employee ID: Lur03
Salary: 31295870599168.0
Year of Hire: 1960
The salary is $2.08634936E13 above the average.

The rest performed as follows:
Name: jon
Employee ID: XYZ123
Salary: 1235987504.0
Year of Hire: 2012
The salary is $1.04311407E13 below the average.

Name: gorth
Employee ID: 6UU405
Salary: 1284884096.0
Year of Hire: 2005
The salary is $1.04310925E13 below the average.

Name: bob
Employee ID: FDI51
Salary: 762388.0
Year of Hire: 2000
The salary is $1.04323759E13 below the average.

Name: ton
Employee ID: FT5108
Salary: 10.0
Year of Hire: 1999
The salary is $1.0432377E13 below the average.
```

Part B

Another scenario where this program could be adapted and reused is to compute the average test score of a collection of students. In our current program we take a file input of employee records and use this to compute the average salary as well as print out information about the salaries and employees. We can use the same functions that we used to read the records and create instances of the Student object which is very similar to Employee but instead of salaries we may have exam scores for a single exam or multiple. We could then print out the highest score for each exam, calculate the average scores, calculate if a student is above or below the average and by how much just by minimally adapting the functions used in the Employee class.