Noah Meeker

CS 420

<center>Lab 4 OOP</center>

Disclaimer

This is by no means the best, cleanest code I have written. I did the best that I can according to what was provided in the prompt. Even with questions asked, either received no reply or did not help the understanding.

Following along with the prompt, the code I wrote starts up and asks the user to state what they would like to do. Based in the user's input, the code will either take in the needed info to add a new employee to the database, info for the month's sales, or printout the requested report. With these printouts, the user will be given the option for the reports to be printed out to a .txt file. The one downside to this implementation is that once the program is terminated, the database is lost. In the case of a negative turnout, it would be taken out of the total sales generated which would eat away at the owner's and chefs' take-home percentage. Otherwise, their salaries are not affected. When looking at the waiter's tips, the program will print out the total amount of tips the waiter has made since being added to the database.

When inserting the employee's information, the program will ask for certain information.

- First Name
- Middle Initial
- Last Name
- ID (any integer number)
- Salary

They will then be asked certain info regarding their position.

- Owner/Chef
   o Percentage (type 70 for 70%. Not 0.70)

- Waiter
   o Years at Company

When giving info on the month's sales, the program will ask for the month's total profit and tips made by each waiter.

There is no type checking or parameter checking. An improper input can cause the program to crash or give an incorrect output. Below are screenshots of the program:

Enter Waiter:

```
What would you like to do? (n: new employee, r: employee report, s: today's sales, t: total sales) n
First Name: Jay
Middle Initial: J
Last Name: Jones
ID Number: 4001
Salary: 3000

Type of Employee: (o: Owner, c: Chef, w: Waiter) w
Years Worked: 3
```

Enter Chef:

```
What would you like to do? (n: new employee, r: employee report, s: today's sales, t: total sales) n
First Name: Henry
Middle Initial: H
Last Name: Styles
ID Number: 2002
Salary: 10000

Type of Employee: (o: Owner, c: Chef, w: Waiter) c
Chef's Percentage: 20
Chef's Expertise: Mexican
***Employee Entered***
```

Enter Owner:

```
What would you like to do? (n: new employee, r: employee report, s: today's sales, t: total sales) n
First Name: Gustavo
Middle Initial: G
Last Name: Hernandez
ID Number: 1001
Salary: 15000

Type of Employee: (o: Owner, c: Chef, w: Waiter) o
Owner's Percentage: 60
***Employee Entered***
```

Print Employee's:

```
What would you like to do? (n: new employee, r: employee report, s: today's sales, t: total sales) r

ID:                4001
Name:              Jones, Jay J
Class:             W
Salary:            $3000
Tips Made:         $0
Years With Company: 3

ID:                4002
Name:              Cooper, Hayden H
Class:             W
Salary:            $3000
Tips Made:         $0
Years With Company: 5

ID:                4003
Name:              Stauffer, Cungak C
Class:             W
Salary:            $3000
Tips Made:         $0
Years With Company: 7

ID:                2001
Name:              Smith, Mary M
Class:             C
Salary:            $10000
Percentage:        20%
Expertise:         Italian

ID:                2002
Name:              Styles, Henry H
Class:             C
Salary:            $10000
Percentage:        20%
Expertise:         Mexican

ID:                1001
Name:              Hernandez, Gustavo G
Class:             O
Salary:            $15000
Percentage:        60%

Print Employee Report? (y or n)
```

Enter Month's Sales:

```
What would you like to do? (n: new employee, r: employee report, s: today's sales, t: total sales) s

Sales for this month: 6000

Tips for Jay : 1000

Tips for Hayden : 1500

Tips for Cungak : 1700

Print current sales report? y or n        y

Month 1:$        6000

Total Sales:                    $6000
Jay        total tips:               $1000
Hayden     total tips:               $1500
Cungak     total tips:               $1700
Mary       total revenue split:      $1200
Henry      total revenue split:      $1200
Gustavo    total revenue split:      $3600
Report Printed
```

Print Total Sales:

```
What would you like to do? (n: new employee, r: employee report, s: today's sales, t: total sales) t

Month 1:$        6000

Month 2:$        4000

Month 3:$       -1000

Total Sales :                   $9000
Jay        total tips:               $1000
Hayden     total tips:               $1500
Cungak     total tips:               $1700
Mary       total revenue split:      $1800
Henry      total revenue split:      $1800
Gustavo    total revenue split:      $5400
```

Attached to the submission will be the employee.txt and report.txt file from this example.