Test Plan: Weekly Employee Pay Report

Overview

A company pays its employees on a weekly basis. There are three types of employees:

1. Salaried employees: fixed weekly salary possibly with a 10% bonus;
2. Hourly employees: paid by number of hours, hourly pay rate is doubled if it's beyond 40 hours/week;
3. Commissioned employees: 20% of the week's sales.

Test Plan Objectives

1. Test that the application requests the user to input the name, type, weekly salary/hourly rate/weekly sales; if it's an hourly employee, request for hours worked for the week.

2. Test that, if it is beyond 40 hours/week, the hourly rate is doubled for hourly employees.

3. Test that the application request for whether a salaried employee will be rewarded by adding 10% to their salaries.

4. Test that the payment information is correctly printed for each employee.

5. Test that the header and footer are printed correctly. The total amount should be printed out below the table. And if there is/are salaried employee(s) awarded, a note stating bonus should be added below the total amount.

Test Cases

1. Salaried Without Bonus

Scenario	Input	Expected Result	Actual Result	Limitations
Salaried without bonus	Name: James Hogan Type: Salaried Salary: 3,300.00	In the table: display the employee's name, type, and salary ($3,300.00 without '*' sign); Below the table: only display the total amount ($3,300.00).	Matches with the Expected Result (Output shown as below)	Empty name and invalid type are not accepted.
Screenshot of output				

```
Xiaofangs-MacBook-Air:~ xiaofangyu$ javac -sourcepath src /Users/xiaofangyu/ITUCourses/CSC518Web/Lab3/*.java
Xiaofangs-MacBook-Air:~ xiaofangyu$ java -cp /Users/xiaofangyu/ITUCourses  CSC518Web.Lab3.WeeklyPayReport
Please enter the employee's name (First Last) :
James Hogan
Please enter the employee type (Enter s for salaried, h for hourly, c for commissioned):
s
Please enter the employee's weekly salary: 3300.00
Do you want to reward this employee by adding 10% to their salaries? (Y/N): n
Do you want to add another employee? (Y/N): n
Name Class Hours Sales Rate Weekly Pay Amount
=================================================
James Hogan Salaried  $3,300.00
=================================================
TOTAL  $3,300.00
Xiaofangs-MacBook-Air:~ xiaofangyu$
```

2. Salaried With Bonus

Scenario	Input	Expected Result	Actual Result	Limitations
Salaried with bonus	Name: James Hogan Type: Salaried Salary: 3,630.00	In the table: display the employee's name, type, and salary($3,630.00 with '*' sign); Below the table: display the total amount ($3,630.00) and the bonus status note.	Matches with the Expected Result (Output shown as below)	Empty name and invalid type are not accepted. Requested whether the employee is rewarded.
Screenshot of output				

```
[Xiaofangs-MacBook-Air:~ xiaofangyu$ java -cp /Users/xiaofangyu/ITUCourses  CSC518Web.Lab3.WeeklyPayReport
Please enter the employee's name (First Last) :
James Hogan
Please enter the employee type (Enter s for salaried, h for hourly, c for commissioned):
s
Please enter the employee's weekly salary: 3300.00
Do you want to reward this employee by adding 10% to their salaries? (Y/N): y
Do you want to add another employee? (Y/N): n
Name Class Hours Sales Rate Weekly Pay Amount
==========================================================
James Hogan Salaried  $3,630.00*
==========================================================
TOTAL  $3,630.00
*A 10% bonus is awarded
Xiaofangs-MacBook-Air:~ xiaofangyu$
```

3. Hourly Within 40 Hrs

Scenario	Input	Expected Result	Actual Result	Limitations
Hourly within 40 hrs	Name: Jennifer Waltz Type: Hourly Hourly rate: 15.00 Hours: 30	In the table: display the employee's name, type, hours, and weekly salary($450.00); Below the table: Only display the total amount ($450.00).	Matches with the Expected Result (Output shown as below)	Empty name and invalid type are not accepted.
Screenshot of output				

```
[Xiaofangs-MacBook-Air:~ xiaofangyu$ java -cp /Users/xiaofangyu/ITUCourses  CSC518Web.Lab3.WeeklyPayReport
Please enter the employee's name (First Last) :
Jennifer Waltz
Please enter the employee type (Enter s for salaried, h for hourly, c for commissioned):
h
Please enter the employee's hourly salary: 15
Please enter the number of hours this employee worked: 30
Do you want to add another employee? (Y/N): n
Name Class Hours Sales Rate Weekly Pay Amount
==========================================================
Jennifer Waltz Hourly 30 $15.00 $450.00
==========================================================
TOTAL  $450.00
Xiaofangs-MacBook-Air:~ xiaofangyu$
```

4. Hourly More Than 40 Hrs

Scenario	Input	Expected Result	Actual Result	Limitations
Hourly more than 40 hrs	Name: Jennifer Waltz Type: Hourly Hourly rate: 15.00 Hours: 45	In the table: display the employee's name, type, hours, and weekly salary ($750.00); Below the table: Only display the total amount ($750.00).	Matches with the Expected Result (Output shown as below)	Empty name and invalid type are not accepted.
Screenshot of output				

```
[Xiaofangs-MacBook-Air:~ xiaofangyu$ java -cp /Users/xiaofangyu/ITUCourses  CSC518Web.Lab3.WeeklyPayReport
Please enter the employee's name (First Last) :
Jennifer Waltz
Please enter the employee type (Enter s for salaried, h for hourly, c for commissioned):
h
Please enter the employee's hourly salary: 15
Please enter the number of hours this employee worked: 45
Do you want to add another employee? (Y/N): n
Name Class Hours Sales Rate Weekly Pay Amount
===================================================
Jennifer Waltz Hourly 45 $15.00 $750.00
===================================================
TOTAL  $750.00
Xiaofangs-MacBook-Air:~ xiaofangyu$
```

5. Commissioned

Scenario	Input	Expected Result	Actual Result	Limitations
Commissioned	Name: Marry Bulter Type: Commissioned Weekly sales: 10,000.00	In the table: display the employee's name, type, weekly sales, and weekly salary ($2,000.00); Below the table: Only display the total amount ($2,000.00).	Matches with the Expected Result (Output shown as below)	Empty name and invalid type are not accepted.
Screenshot of output				

```
[Xiaofangs-MacBook-Air:~ xiaofangyu$ java -cp /Users/xiaofangyu/ITUCourses  CSC518Web.Lab3.WeeklyPayReport
Please enter the employee's name (First Last) :
Marry Bulter
Please enter the employee type (Enter s for salaried, h for hourly, c for commissioned):
c
Please enter the weekly sales: 10000.00
Do you want to add another employee? (Y/N): n
Name Class Hours Sales Rate Weekly Pay Amount
===================================================
Marry Bulter Commissioned  $10,000.00 $2,000.00
===================================================
TOTAL  $2,000.00
Xiaofangs-MacBook-Air:~ xiaofangyu$
```

Multiple Employees

Scenario	Input	Expected Result	Actual Result	Limitations
Multiple Employees	Five employees show all the previous five test cases	In the table: display the five employees' name, type, weekly sales, and weekly salary respectively; Below the table: Only display the total amount and the bonus status note.	Matches with the Expected Result (Output shown as below)	Empty name and invalid type are not accepted. Once all the info for one employee requested, ask for whether or not add another employee.
Screenshot of output					

```
Do you want to add another employee? (Y/N): y
Please enter the employee's name (First Last) :
Marry Bultler
Please enter the employee type (Enter s for salaried, h for hourly, c for commissioned):
c
Please enter the weekly sales: 10000
Do you want to add another employee? (Y/N): n
Name Class Hours Sales Rate Weekly Pay Amount
==================================================================
James Hogan Salaried  $3,630.00*
Jennifer Waltz Hourly 45 $10.95 $547.50
Moly Smith Hourly 32 $15.00 $480.00
Joan Han Salaried  $2,600.00
Marry Bultler Commissioned  $10,000.00 $2,000.00
==================================================================
TOTAL  $9,257.50
*A 10% bonus is awarded
Xiaofangs-MacBook-Air:~ xiaofangyu$
```