

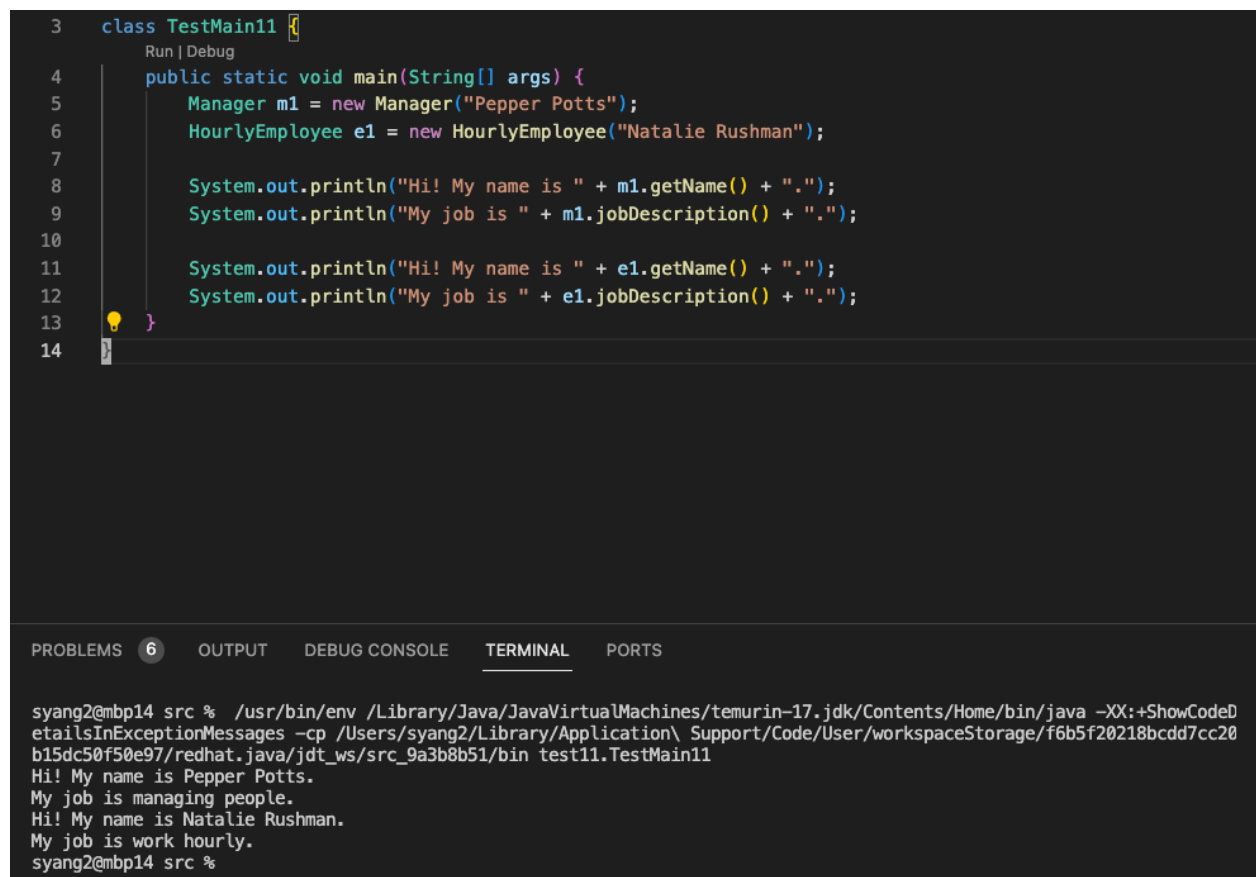
Test 1

For each question, please submit **ALL OF YOUR SOURCE CODES** and the **SCREENSHOT** of the executed program.

Question 1:

Create package with your initial test11. (e.g. James Bond use "**jbtest11**").

The completed program should run as shown below:



The screenshot displays an IDE with a Java class named `TestMain11`. The code defines a `main` method that creates a `Manager` object (Pepper Potts) and an `HourlyEmployee` object (Natalie Rushman), then prints their names and job descriptions. Below the code editor, the `TERMINAL` tab shows the command used to run the program and the resulting output.

```
3 class TestMain11 {
4     Run | Debug
5     public static void main(String[] args) {
6         Manager m1 = new Manager("Pepper Potts");
7         HourlyEmployee e1 = new HourlyEmployee("Natalie Rushman");
8
9         System.out.println("Hi! My name is " + m1.getName() + ".");
10        System.out.println("My job is " + m1.jobDescription() + ".");
11
12        System.out.println("Hi! My name is " + e1.getName() + ".");
13        System.out.println("My job is " + e1.jobDescription() + ".");
14    }
15 }
```

PROBLEMS 6 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
syang2@mbp14 src % /usr/bin/env /Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java -XX:+ShowCodeD
etailsInExceptionMessages -cp /Users/syang2/Library/Application\ Support/Code/User/workspaceStorage/f6b5f20218bcd7cc20
b15dc50f50e97/redhat.java/jdt_ws/src_9a3b8b51/bin test11.TestMain11
Hi! My name is Pepper Potts.
My job is managing people.
Hi! My name is Natalie Rushman.
My job is work hourly.
syang2@mbp14 src %
```

Complete **Employee.java**, **HourlyEmployee.java** and **Manager.java** codes to run the program as shown in the above screenshot.

*** You may need to include package line in other files to execute the program ***

Question 2:

Create package with your initial test12. (e.g. James Bond use “**jbtest12**”).

The completed program should run as shown below:

```
3 public class TestMain12 {
4     public static void main(String[] args) {
5         BOGO milk = new BOGO("Horizon milk");
6         MultiBuys chips = new MultiBuys("Pringles");
7
8         PromotionItem pi = milk;
9         System.out.print(pi.getName() + " is on sale as ");
10        pi.howItWorks();
11
12        pi = chips;
13        System.out.print(pi.getName() + " is on sale as ");
14        pi.howItWorks();
15    }
16 }
17
```

Run | Debug

PROBLEMS 6 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
syang2@mbp14 src % /usr/bin/env /Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java -XX:+ShowCodeD
etailsInExceptionMessages -cp /Users/syang2/Library/Application\ Support/Code/User/workspaceStorage/f6b5f20218bcd7cc20
b15dc50f50e97/redhat.java/jdt_ws/src_9a3b8b51/bin test12.TestMain12
Horizon milk is on sale as buy one and get one free.
Pringles is on sale as 2 for the price of 1.
syang2@mbp14 src %
```

Complete **BOGO.java** and **MultiBuys.java** codes to run the program as shown in the above screenshot.

*** You may need to include package line in other files to execute the program ***

Question 3:

Create package with your initial test13. (e.g. James Bond use "jbtest13").

The completed program should run as shown below:

```
Enter a number: 3
The number is higher than 3.
Enter a number: a
Please enter an integer number.
Enter a number: 8
The number is lower than 8.
Enter a number: 7
The number is lower than 7.
That is the number.
syang2@mbp14 src %
```

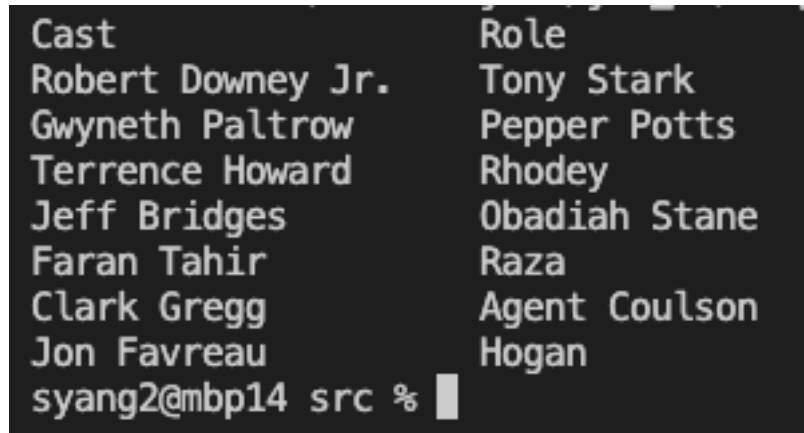
Complete [TestMain13.java](#) codes to run the program as shown in the above screenshot.

*** You may need to include package line in the code to execute the program ***

Question 4:

Create package with your initial test14. (e.g. James Bond use "**jbtest14**").

The completed program should run as shown below:



```
Cast      Role
Robert Downey Jr.  Tony Stark
Gwyneth Paltrow    Pepper Potts
Terrence Howard    Rhodey
Jeff Bridges       Obadiah Stane
Faran Tahir        Raza
Clark Gregg        Agent Coulson
Jon Favreau        Hogan
syang2@mbp14 src %
```

Complete **TestMain14.java** codes to run the program as shown in the above screenshot.

Use the provided **casts.txt** and **roles.txt** files to test your program.

*** You may need to include package line in the code to execute the program ***