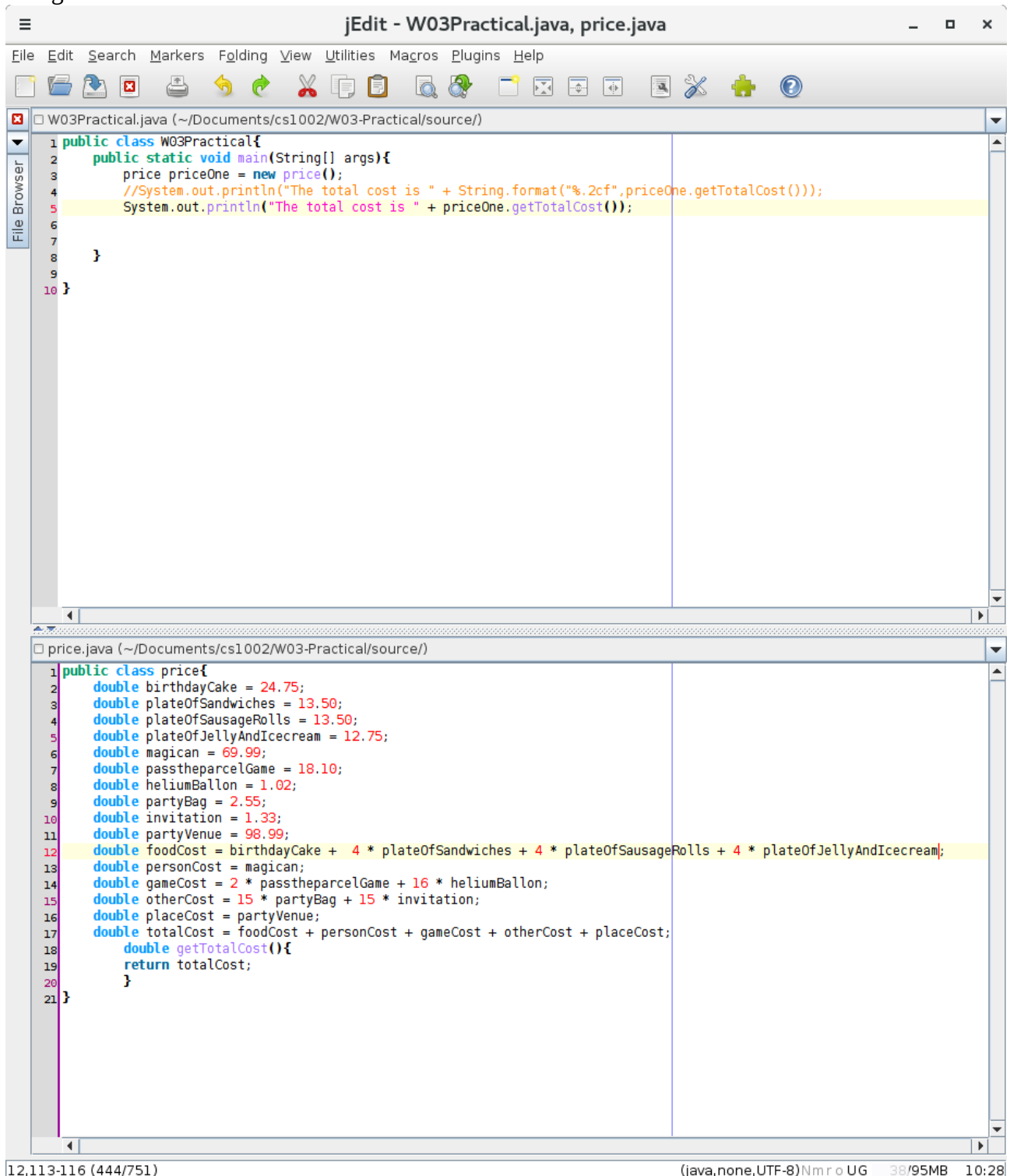


Overview:

To calculate the total cost of a party and try to make the program easy to be debugged.

Design:



The screenshot shows the jEdit IDE with two open files. The top file, `W03Practical.java`, contains a `public class W03Practical` with a `main` method that creates a `price` object and prints its `getTotalCost()`. The bottom file, `price.java`, contains a `public class price` with various double variables representing costs (e.g., `birthdayCake = 24.75`) and a `getTotalCost()` method that calculates the sum of these costs.

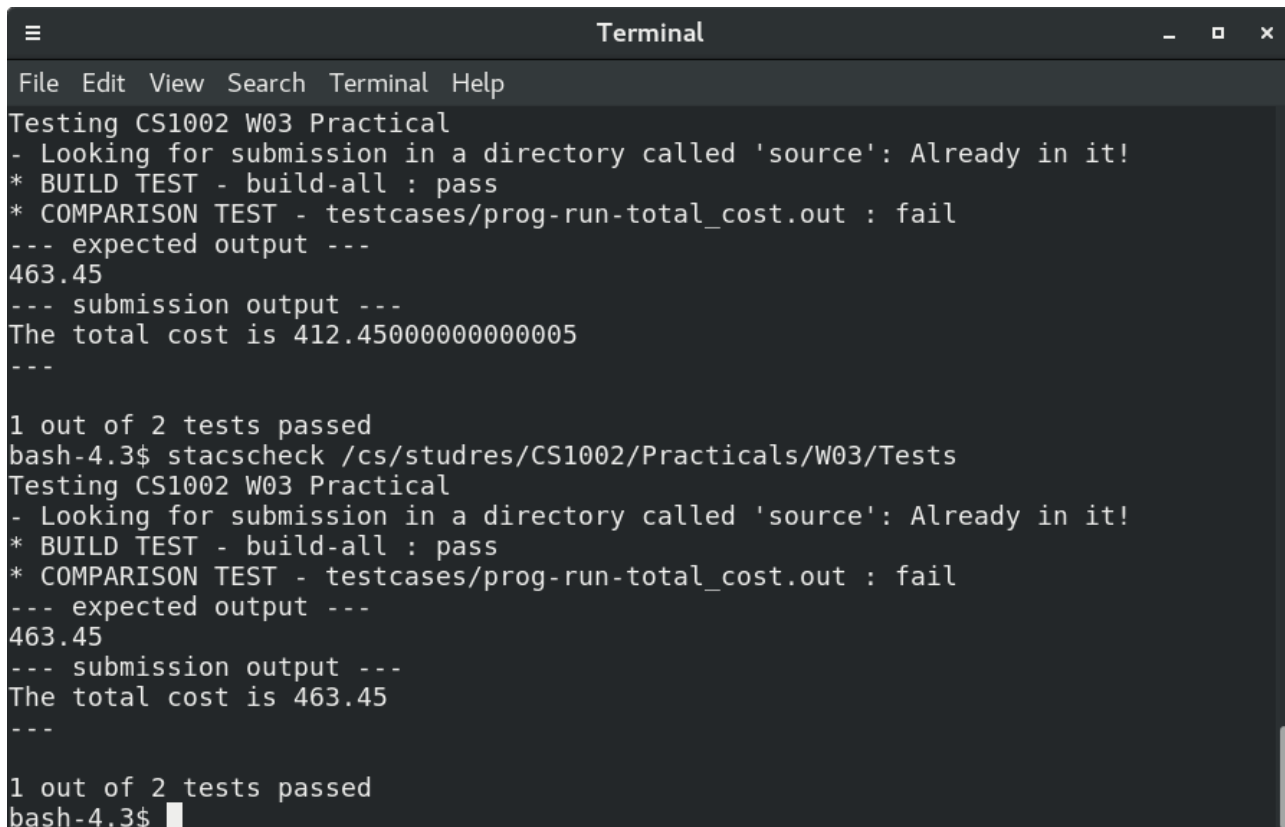
```
1 public class W03Practical{
2     public static void main(String[] args){
3         price priceOne = new price();
4         //System.out.println("The total cost is " + String.format("%.2cf",priceOne.getTotalCost()));
5         System.out.println("The total cost is " + priceOne.getTotalCost());
6
7     }
8 }
9
10 }
```

```
1 public class price{
2     double birthdayCake = 24.75;
3     double plateOfSandwiches = 13.50;
4     double plateOfSausageRolls = 13.50;
5     double plateOfJellyAndIcecream = 12.75;
6     double magican = 69.99;
7     double passtheparcelGame = 18.10;
8     double heliumBallon = 1.02;
9     double partyBag = 2.55;
10    double invitation = 1.33;
11    double partyVenue = 98.99;
12    double foodCost = birthdayCake + 4 * plateOfSandwiches + 4 * plateOfSausageRolls + 4 * plateOfJellyAndIcecream;
13    double personCost = magican;
14    double gameCost = 2 * passtheparcelGame + 16 * heliumBallon;
15    double otherCost = 15 * partyBag + 15 * invitation;
16    double placeCost = partyVenue;
17    double totalCost = foodCost + personCost + gameCost + otherCost + placeCost;
18    double getTotalCost(){
19        return totalCost;
20    }
21 }
```

ssss With listening to the lectures of the lecturer this week, I want to make the program better to debug and be brief. I choose to divided the programmes in two java class in order to make the program be more organized and easy to debugged(but mostly for my curiosity). It's quite hard to do so for me because this is the first time I did so. I found my fault that I spelled the wrong vocabulary.

Testing:

To reach to the better UI, I added “The total cost is”, But the result is all fine.
Examples :



```
Terminal
File Edit View Search Terminal Help
Testing CS1002 W03 Practical
- Looking for submission in a directory called 'source': Already in it!
* BUILD TEST - build-all : pass
* COMPARISON TEST - testcases/prog-run-total_cost.out : fail
--- expected output ---
463.45
--- submission output ---
The total cost is 412.450000000000005
---

1 out of 2 tests passed
bash-4.3$ stacccheck /cs/studres/CS1002/Practicals/W03/Tests
Testing CS1002 W03 Practical
- Looking for submission in a directory called 'source': Already in it!
* BUILD TEST - build-all : pass
* COMPARISON TEST - testcases/prog-run-total_cost.out : fail
--- expected output ---
463.45
--- submission output ---
The total cost is 463.45
---

1 out of 2 tests passed
bash-4.3$
```

Succeed!

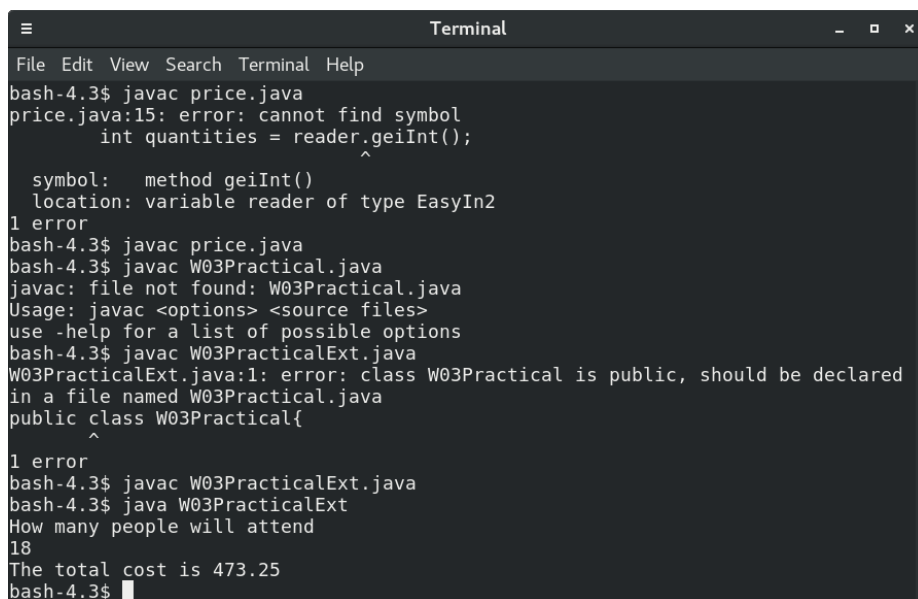
Evaluation:

I think it's better than what I am required.

Conclusion:

I find that I studied the use of use more classes and use method to return values back to main Java program via new command. If I have more time I will try to make users choose wheather they want to see more messages about price use “if” command.

Extension1:



```
Terminal
File Edit View Search Terminal Help
bash-4.3$ javac price.java
price.java:15: error: cannot find symbol
    int quantities = reader.geiInt();
                           ^
    symbol:   method geiInt()
    location: variable reader of type EasyIn2
1 error
bash-4.3$ javac price.java
bash-4.3$ javac W03Practical.java
javac: file not found: W03Practical.java
Usage: javac <options> <source files>
use -help for a list of possible options
bash-4.3$ javac W03PracticalExt.java
W03PracticalExt.java:1: error: class W03Practical is public, should be declared
in a file named W03Practical.java
public class W03Practical{
    ^
1 error
bash-4.3$ javac W03PracticalExt.java
bash-4.3$ java W03PracticalExt
How many people will attend
18
The total cost is 473.25
bash-4.3$
```

I added the quantities of participater and the photo is like this:

```
Terminal
File Edit View Search Terminal Help
location: variable reader of type EasyIn2
1 error
bash-4.3$ javac price.java
bash-4.3$ javac W03Practical.java
javac: file not found: W03Practical.java
Usage: javac <options> <source files>
use -help for a list of possible options
bash-4.3$ javac W03PracticalExt.java
W03PracticalExt.java:1: error: class W03Practical is public, should be declared
in a file named W03Practical.java
public class W03Practical{
    ^
1 error
bash-4.3$ javac W03PracticalExt.java
bash-4.3$ java W03PracticalExt
How many people will attend
18
The total cost is 473.25
bash-4.3$ javac W03PracticalExt.java
bash-4.3$ java W03PracticalExt
"How many people will attend"
77
The total cost is 762.35
bash-4.3$
```

Extension2:with “\”being used and its just like this