CSC 151 Assignment #1

1. Honor Code

A. For individual assignments: Jane Doe and John Doe will be replaced by your full name(s) I affirm that I have carried out my academic endeavors with full academic honesty. [Signed, Manav Bilakhia]

Resources:

Textbook

Geeksforgeeks

2. Java files and outputs

A. Java files

Class: Product.java

```
* @param unitPrice initial unit price
 * @param quantity initial quantity
 * @param pName initial name of the product
 * @param unitPrice to set
public int getQuantity()
```

```
* @param pName the pName to set
* @param obj second product for comaprison
public boolean equals(Object obj) {
public String toString()
 * @param args default java main parameter
```

```
System.out.println(p4);
```

```
Class: Receipt.java
     * @param product product to be added
     * @return itemCount
```

```
public String toString()
```

B. Sample output 1

I. Describe your test 1:To see if total method in product class works

II. Text output 1:

```
Chocolate:100 \times 10 = 1000
shampoo:0 \times 0 = 0
soap:10 \times 5 = 50
```

III. Screenshot 1:

```
Chocolate:100 x 10 = 1000
shampoo:0 x 0 = 0
soap:10 x 5 = 50
1050
```

C. Sample output 2

I. Describe your test 2: to see if equals method in product class recognizes two same items with same name, same item price and same quantity

Test case:

```
Product p2=new Product(100,10,"Chocolate");
Product p3=new Product(100,10,"Chocolate");
System.out.println(p3.equals(p4));
System.out.println(p3.equals(p2));
```

II. Text output 2: false

true

III. Screenshot 2:

```
false
true
```

D. Sample output 3

I. Describe your test 3: to see what happens when we try to input items beyond the max price and quantity in the receipt class

```
mR.addItem(new Product(1, 3, "p1"));
mR.addItem(new Product(70, 5, "p2"));
mR.addItem(new Product(950, 20, "p3"));
```

```
II. Text output 3:

p1:1 x 3 = 3

p2:70 x 5 = 350

p3:0 x 0 = 0

= 353
```

III. Screenshot 3:

```
p1:1 x 3 = 3
p2:70 x 5 = 350
p3:0 x 0 = 0
= 353
```

The code passed all the tests.