```
27 //CODE BY AKSHAT GARG
28     // add an instance variable for the discount
29     double discount;
30     // Add constructors that call the super constructor
31     public DiscountedItem()
32     {
33         super();
34         discount = 0.0;
35     }
36     public DiscountedItem(String name, double value, double disc)
37     {
38         super(name,value);
39         discount = disc;
40     }
41     // Add get/set methods for discount
42     public double getDiscount()
43     {
44         return discount; // return discount here instead of 0
45     }
46     public void setDiscount(double newDiscount)
47     {
48         discount = newDiscount;
49     }
50
51     // Add a toString() method that returns a call to the super toString
52     // and then the discount in parentheses using the super.valueToString() method
53     public String toString()
54     {
55         return super.toString()+"("+super.valueToString(discount)+")";
```

```
Order Items:
    bread $3.25
    milk $2.50
    ice cream $4.50($1.50)
    apples $1.35($0.25)
Sub-total: $11.60
Discount: $1.75
Total: $9.85
```

Result	Expected	Actual	Notes
Passed	Order Items: bread $3.25 milk $2.50 ice cream $4.50 ($1.50) apples $1.35 ($0.25) Sub-total: $11.60 Discount: $1.75 Total: $9.85	Order Items: bread $3.25 milk $2.50 ice cream $4.50($1.50) apples $1.35($0.25) Sub-total: $11.60 Discount: $1.75 Total: $9.85	Running main
Passed	Order Items: bread $3.25 milk $2.50 ice cream $4.50 ($1.50) apples $1.35 ($0.25) Sub-total: $11.60 Discount: $1.75 Total: $9.85	Order Items: bread $3.25 milk $2.50 ice cream $4.50($1.50) apples $1.35($0.25) Sub-total: $11.60 Discount: $1.75 Total: $9.85	Checking that DiscountedItem objects were added to ArrayList
Passed	pass	pass	Checking constructor with arguments: String, double, double
Passed	true	true	Checking that code contains public double getDiscount()
Passed	true	true	Checking that code contains public String toString()
Passed	true	true	Checking that code contains super.toString()
Passed	true	true	Checking that code contains super.valueToString(*)

You got 7 out of 7 correct. 100.00%

Activity: 9.5.4.1 ActiveCode (challenge-9-5-shopping)

Instead of returning a string in the toString method for DiscountedItem, I did a print statement. Lots of errors ensued, finally fixed it after fixing the return type, figuring out what valueToString actually accomplished, etc. Good exercise, very practical.