```
package Assignment_7;
2
3
      import java.util.*;
import BasicIO.*;
import static BasicIO.Formats.*;
import java.text.DecimalFormat;
4
6
               Shane Thomas
R
          //5901368
9
10
                                                                                      */
11
12
      public class NewHorizions {
13
14
                                                                          // data file for inventory info
// prompter for user input
// data file for updated inventory info
// printer for report
             private ASCIIDataFile
                                                      invData;
15
             private ASCIIPrompter
16
                                                      prompt;
             private ASCIIOutputFile private ReportPrinter
                                                      newInvData;
17
18
                                                      report;
             private BasicForm
                                                      display;
19
20
             /** The constructor creates the basic form with a title and buttons.
21
                                                                                                                                          */
22
             public NewHorizions ( )
23
24
25
                   Item item; //Item
String name; //Name
double cr; //Current amount
double pv; //Previous amount
double charge; //charge
double total; // Total Charge
26
27
28
29
30
31
32
33
                   invData = new ASCIIDataFile();
prompt = new ASCIIPrompter();
newInvData = new ASCIIOutputFile();
34
35
                    report = new ReportPrinter();
36
                    display = new BasicForm();
37
                    setUpReport();
38
                    buildForm();
39
                    total = 0;
40
41
                    for ( ; ; )
42
                       item = new Item(invData);
43
                   if ( invData.isEOF() ) break;
{
44
45
46
47
                          fillForm(item)
                         fillForm(item);
display.accept();
cr = display.readDouble("cr");
pv = item.getPrevious();
charge = item.charge(cr);
name = item.getName();
writeDetail(item,pv,cr);
item.write(newInvData);
total+=charge;
48
49
50
51
52
53
55
                          total+=charge;
56
57
                   }
58
                   };
59
60
                    total = Math.round(total*100)/100.0; // This makes the number round to two
      decimal places
                   writeSummary(ţotal);
61
62
                    display.close();
63
                    invData.close()
64
                    newInvData.close();
65
                    prompt.close();
66
                    report close();
67
68
             }; // constructor
69
70
             private void buildForm()
71
72
                display.addTextField("itemNum","Account #",6,10,10);
display.setEditable("itemNum",false);
display.addTextField("name","Name",16,10,40);
73
74
                               /Users/StormFlake/Desktop/Assignment_7/NewHorizions.java
```

```
display.setEditable("name", false);
display.addTextField("pv", "Previous Reading",5,10,70);
display.setEditable("pv", false);
display.addTextField("cr", "Current Reading",5,10,100);
//buildForm
76
77
78
79
80
               } //buildForm
81
               private void fillForm(Item item)
{
82
83
              display.writeString("itemNum",item.getAccountNum());
display.writeString("name",item.getName());
display.writeDouble("pv",item.getPrevious());
display.clear("cr");
} //fillForm
84
85
86
87
88
89
               private void writeDetail ( Item item, double pv,double cr )
90
91
                      report.writeString("acnt",item.getAccountNum());
report.writeString("name",item.getName());
report.writeDouble("pv",pv);
report.writeDouble("cr",cr);
report.writeDouble("charge",item.getPrevious());
92
93
94
95
96
97
98
               }; //writeDetail
99
               private void writeSummary ( double total )
100
101
                 report.writeLine("Total Billed: $"+total);
102
103
               }; '// writeSummary
104
               private void writeInvData ( Item item )
105
106
                      newInvData.writeString(item.getAccountNum());
newInvData.writeString(item.getName());
newInvData.writeDouble(item.getPrevious());
107
108
109
110
                      newInvData.newLine();
111
112
               }; // writeInvData
113
               private void setUpReport()
114
115
                  report.setTitle("Over the Horizon Utilities", "Billing Report");
report.addField("acnt", "Account #",9);
report.addField("name", "Name",20);
report.addField("pv", "Previous",8);
report.addField("cr", "Current",10);
report.addField("charge", "Charge",8);
//setUnReport
116
117
118
119
120
121
122
               } //setUpReport
123
124
               public static void main ( String[] args ) { NewHorizions i = new NewHorizions(); };
125
126
127 } // NewHorizions
```