```
1   // 2.13 Sales.java
2   // By Taper Wickel
3
4   import java.io.*;
5
6   public class Sales {
7       public static void main( String args[] ) throws IOException {
8
9           int a, b, c, d, item;
10          double sales;
11
12          a = 0;
13          b = 0;
14          c = 0;
15          d = 0;
16          sales = 0.0;
17          item = 'A';
18
19          while ( (item != 'X') ) {
20              System.out.println( "Enter the product sold ( A-D ). X to quit");
21              item = System.in.read();
22
23              switch ( item ) {
24              case 'A': case 'a':
25                  ++a;
26                  break;
27
28              case 'B': case 'b':
29                  ++b;
30                  break;
31
32              case 'C': case 'c':
33                  ++c;
34                  break;
35
36              case 'D': case 'd':
37                  ++d;
38                  break;
39
40              case 'X':
41                  break;
42
43              default:
44                  System.out.println( "Please input A-D or X to quit.");
45              }
46
47              System.in.skip( 1 );
48
49          }
50
51          sales = 200 + .09 * ( 239.99 * a + 129.75 * b +
52                                99.95 * c + 350.89 * d);
53          System.out.println( "Total sales is $" + sales );
54      }
55  }
56
```

Functions	
sold	1:1

```
Enter the product sold ( A-D ). X to quit
a
Enter the product sold ( A-D ). X to quit
b
Enter the product sold ( A-D ). X to quit
c
Enter the product sold ( A-D ). X to quit
X
Total sales is $242.2721


Enter the product sold ( A-D ). X to quit
D
Enter the product sold ( A-D ). X to quit
a
Enter the product sold ( A-D ). X to quit
E
Please input A-D or X to quit.
Enter the product sold ( A-D ). X to quit
A
Enter the product sold ( A-D ). X to quit
a
Enter the product sold ( A-D ). X to quit
B
Enter the product sold ( A-D ). X to quit
b
Enter the product sold ( A-D ). X to quit
b
Enter the product sold ( A-D ). X to quit
X
Total sales is $331.4099

Enter the product sold ( A-D ). X to quit
X
Total sales is $200.0

```