

```
1 import components.simplereader.SimpleReader;
2
3
4
5
6 /**
7  * Put a short phrase describing the program here.
8  *
9  * @author Put your name here
10 *
11 */
12 public final class CoinChange2 {
13
14     /**
15      * Private constructor so this utility class cannot be instantiated.
16      */
17     private CoinChange2() {
18     }
19
20     /**
21      * Main method.
22      *
23      * @param args
24      *         the command line arguments
25      */
26     public static void main(String[] args) {
27         SimpleReader in = new SimpleReader1L();
28         SimpleWriter out = new SimpleWriter1L();
29         /*
30          * Put your main program code here
31          */
32         int cents;
33         int[] coinCounts = new int[6];
34         int[] a = { 100, 50, 25, 10, 5, 1 };
35
36         out.print("Please enter the number of cents: ");
37         cents = Integer.parseInt(in.nextLine());
38
39         coinCounts[0] = (cents - (cents % a[0])) / a[0];
40         cents = cents % a[0];
41
42         coinCounts[1] = (cents - (cents % a[1])) / a[1];
43         cents = cents % a[1];
44
45         coinCounts[2] = (cents - (cents % a[2])) / a[2];
46         cents = cents % a[2];
47
48         coinCounts[3] = (cents - (cents % a[3])) / a[3];
49         cents = cents % a[3];
50
51         coinCounts[4] = (cents - (cents % a[4])) / a[4];
52         cents = cents % a[4];
53
54         coinCounts[5] = (cents - (cents % a[5])) / a[5];
55         cents = cents % a[5];
56
57         out.println("Change in:");
58         out.println("Dollars: " + coinCounts[0]);
59         out.println("Half Dollars: " + coinCounts[1]);
60         out.println("Quarters: " + coinCounts[2]);
```

```
61         out.println("Dimes: " + coinCounts[3]);
62         out.println("Nickles: " + coinCounts[4]);
63         out.println("Pennies: " + coinCounts[5]);
64
65         /*
66          * Close input and output streams
67          */
68         in.close();
69         out.close();
70     }
71
72 }
73
```