## C:/Users/Misha/Documents/NetBeansProjects/Assignment1/src/assignment1/Assignment1.java

```
1 /**
 2 * @author Mikhail Nikulin
   * @since 7-23-2023
 4 * @version 1.0
 5
 6 * description: this program collects info about the user's coins and
 7 * then calculates total number of coins, total dollar value,
 8 * its penny equivalent. The result is then displayed in console and saved
 9 * to a text file.
10
11 * Steps taken: first, import required libraries, create variables,
12 * create method to get input, then create a method to print results in console,
13 * then create a method to save result to a text file. Finally, call all methods
14 * in the main function and troubleshoot any errors.
15
16 * Opinion: this program was interesting to make and practice Java. I had
17 * a couple syntax errors but quickly found solutions. I also had to change
18 * my approach to the entire program. Overall great experience. I give 5 stars.
19 *
20 */
21 package assignment1;
22
23 import java.util.Scanner;
24 import java.io.PrintStream;
25
26 public class Assignment1 {
27
       public static int halfDollars, quarters, dimes,
28
                         nickels, pennies, total;
29
       public static double value;
30
       public static int nextEntry = 0;
31
      public static Scanner sc = new Scanner(System.in);
32
       public static PrintStream ps;
33
34
35
       public static void main(String[] args) throws Exception {
36
37
           ps = new PrintStream("output.txt");
38
           getInput();
39
40
41
```

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```
42
           while (nextEntry > -1) {
43
             getInput();
44
           }
45
46
           total = halfDollars + quarters + dimes + nickels + pennies;
           value = halfDollars * 0.5 + quarters * 0.25 + dimes * 0.1 +
47
                    nickels * 0.05 + pennies * 0.01;
48
49
50
           printResult();
51
           saveResult();
52
53
       }
54
55
       // collect data from user
56
       public static void getInput() {
57
         System.out.println("The value of your change will be computed.");
58
         System.out.println("Enter -1 now to stop.");
59
60
         System.out.println("\nHow Many half dollars do you have? ");
61
         nextEntry = sc.nextInt();
62
63
         if(nextEntry > -1){
64
             halfDollars += nextEntry;
             System.out.println("\nHow Many quarters do you have? ");
65
66
             quarters += sc.nextInt();
             System.out.println("\nHow Many dimes do you have? ");
67
68
             dimes += sc.nextInt();
             System.out.println("\nHow Many nickels do you have? ");
69
70
             nickels += sc.nextInt();
71
             System.out.println("\nHow many pennies do you have? ");
72
             pennies = sc.nextInt();
73
74
       }
75
76
77
78
       // Display results in console
79
       public static void printResult() {
                                                          +halfDollars+" half dollars\n" +
80
           System.out.println("You entered:
81
                                                 "+quarters+" quarters\n"+
                                                 "+dimes+" dimes\n"+
82
```

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```
83
                                                 "+nickels+" nickels\n"+
84
                                                 "+pennies+" pennies\n");
85
86
            System.out.printf("The value of your %d coins is $%.2f which "
87
                    + "is equivalent to %.0f pennies.\n",
88
                        total, value, value *100);
89
        }
 90
        // Save results to "output.txt"
 91
        public static void saveResult() throws Exception {
 92
 93
            ps.println("You entered:
                                                  +halfDollars+" half dollars\n" +
94
                                                 "+quarters+" quarters\n"+
                                                 "+dimes+" dimes\n"+
 95
                                                 "+nickels+" nickels\n"+
96
97
                                                 "+pennies+" pennies\n");
98
            ps.printf("The value of your %d coins is $%.2f which "
99
                    + "is equivalent to %.0f pennies.\n",
100
101
                        total, value, value *100);
102
        }
103 }
```

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