## **MySavings Mastery ErrorLog**

Foreword: Screenshots were taken on both my home and school computer, hence the difference between the package in some of the screenshots.

The first rendition of my code is pictured below:

```
package skibidi;
import java.util.Scanner;
public class TestMySavings {
   public static int input() {
        @SuppressWarnings("resource")
        Scanner userInput = new Scanner(System.in);
        int choice = userInput.nextInt();
        return choice;
   public static void main(String[] args) {
        do {
            System.out.println("1. Show total in bank.");
System.out.println("2. Add a penny.");
System.out.println("3. Add a nickel.");
            System.out.println("4. Add a dime.");
             System.out.println("5. Add a quarter.");
             System.out.println("6. Take money out of bank.");
             System.out.println("Enter 0 to quit.");
             System.out.println("Enter your choice: ");
            MySavings.PiggyBank(input());
        } while (input() != 0);
```

```
package skibidi;
   private static double totalValue = 0;
   public static void PiggyBank(int input) {
       switch (input) {
           System.out.println("You have " + totalValue + " in your piggybank.");
           System.out.println("Case2");
           totalValue += 0.01;
           System.out.println("Case3");
           totalValue += 0.05;
           break;
           System.out.println("Case4");
           totalValue += 0.1;
           System.out.println("Case5");
           totalValue += 0.25;
           System.out.println("Case6");
           totalValue = 0;
```

In the TestMySavings class I used a do while loop so that the print statement would repeat until the user inputted a zero, unfortunately this contained a logical error, as the call to the MySavings.PiggyBank(); object and the while loop condition used the input(); object. This meant that the user had to enter a number twice in order for the loop to cycle.

## Example of error:

```
1. Show total in bank.
2. Add a penny.
Add a nickel.
4. Add a dime.
5. Add a quarter.
6. Take money out of bank.
Enter 0 to quit.
Enter your choice:
Case2
1. Show total in bank.
2. Add a penny.
3. Add a nickel.
4. Add a dime.
5. Add a quarter.
6. Take money out of bank.
Enter 0 to quit.
Enter your choice:
You have 0.01 in your piggybank.
1. Show total in bank.
2. Add a penny.
3. Add a nickel.
4. Add a dime.
5. Add a quarter.
6. Take money out of bank.
Enter 0 to quit.
Enter your choice:
Case5
1. Show total in bank.
2. Add a penny.
Add a nickel.
4. Add a dime.
5. Add a quarter.
6. Take money out of bank.
Enter 0 to quit.
Enter your choice:
You have 0.26 in your piggybank.
```

The second rendition of my code resolved my previous error. I declared a new variable, input, as 10, outside of the range of the loop condition. Then within the loop I initialized input to the now renamed selection(); object. This solved my error, albeit in an improper way.

The second rendition of my code:

```
package skibidi;
import java.util.Scanner;
   public static int selection() {
        @SuppressWarnings("resource")
        Scanner userInput = new Scanner(System.in);
        int choice = userInput.nextInt();
        return choice;
    public static void main(String[] args) {
        int input = 10;
        while (input != 0) {
            System.out.println("1. Show total in bank.");
System.out.println("2. Add a penny.");
System.out.println("3. Add a nickel.");
            System.out.println("4. Add a dime.");
            System.out.println("5. Add a quarter.");
            System.out.println("6. Take money out of bank.");
            System.out.println("Enter 0 to quit.");
            System.out.println("Enter your choice: ");
            input = selection();
            //Calls PiggyBank Object from MySavings Class with the input variable
            MySavings.PiggyBank(input);
        }
```

```
package skibidi;
   private static double totalValue = 0;
       switch (input) {
           System.out.println("You have " + totalValue + " in your piggybank.");
           totalValue += 0.01;
           totalValue += 0.05;
           totalValue += 0.1;
           totalValue += 0.25;
           totalValue = 0;
```

## Updated output:

```
1. Show total in bank.
2. Add a penny.
3. Add a nickel.
4. Add a dime.
5. Add a quarter.
6. Take money out of bank.
Enter 0 to quit.
Enter your choice:
1. Show total in bank.
2. Add a penny.
3. Add a nickel.
4. Add a dime.
5. Add a quarter.
6. Take money out of bank.
Enter 0 to quit.
Enter your choice:
You have 0.01 in your piggybank.
1. Show total in bank.
2. Add a penny.
3. Add a nickel.
4. Add a dime.
5. Add a quarter.
6. Take money out of bank.
Enter 0 to quit.
Enter your choice:
1. Show total in bank.
2. Add a penny.
3. Add a nickel.
4. Add a dime.
5. Add a quarter.
6. Take money out of bank.
Enter 0 to quit.
Enter your choice:
You have 0.0 in your piggybank.
1. Show total in bank.
2. Add a penny.
3. Add a nickel.
4. Add a dime.
5. Add a quarter.
6. Take money out of bank.
Enter 0 to quit.
Enter your choice:
```