

Credit Name: CSE 3120 Object-Oriented Programming 1

Assignment Name: My Savings

Error Log Entry

What error message did you encounter (if any)?

```
Exception in thread "main" java.lang.Error: Unresolved compilation problem:  
    option cannot be resolved to a variable  
  
    at Mastery.testMySavings.main(testMySavings.java:60)
```

What unexpected behavior did your program exhibit?

1. Sometimes, when displaying the total balance there were VERY small decimals.
2. 'Option' recieved an error message

```
Enter option: 1  
Balance: $0.15000000000000002
```

What caused the issue? (e.g., syntax error, logic error, incorrect function usage, etc.)

1. Logic error - I learned that numbers in binary cannot be stored exactly 0.10 or 0.05
2. The variable 'option' was intialized inside the do-while loop, so it couldn't be seen within the while statement

Include a screenshot of specific lines of code.

```
1. public double getBalance()  
   {  
       return(balance);  
   }  
2. }while (option != 0);  
do  
{  
    System.out.print("Enter option: ");  
    option = input.nextInt();
```

How did you fix the issue?

1. I had to round the balance to two decimal places to get rid of the extra zeros
2. I added the variable 'option' outside of the loop so it can be seen by the while statement

Provide the corrected code or solution using a screenshot.

```
1. public double getBalance()  
   {  
       Math.round((balance * 100) / 100);  
       return(balance);  
   }  
2. int option;
```

```
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 option: 3  
Enter option: 2  
Enter option: 5  
Enter option: 1  
Balance: $0.31
```

```
Balance: $0.51
Enter option: 5
Enter option: 1
Balance: $0.56
Enter option: 6
Withdrew: $0.56
Enter option: 5
Enter option: 1
Balance: $0.25
Enter option: 0
Bank Balance: 0.25
Amount withdrew: 0.56
```