

CS Error/Bug log

I had missing, uninitialized variables that the program attempted to access but was unsuccessful, because my variables were not set, to fix this I initialized my variables (Shown below)

```
public void setTotal()
{
    total = penny*0.01 + nickel*0.05 + dime*0.1 +quarter*0.25;
}
```

My switch case does not properly handle invalid inputs because I did not add a default case (Shown below)

```
switch (userChoice) { // Switch case statement which prints something depending on userChoice
    case 1:
        PiggyBank.setTotal();
        System.out.println("Bank balance: " + decimalFormat.format(PiggyBank.getTotal()));
        System.out.println(" ");
        break;

    case 2:
        System.out.print("Enter amount of pennies: ");
        PiggyBank.setPenny(userinput.nextInt());
        System.out.println(" ");
        break;

    case 3:
        System.out.print("Enter amount of nickels: ");
        PiggyBank.setNickel(userinput.nextInt());
        System.out.println(" ");
        break;

    case 4:
        System.out.print("Enter amount of dimes: ");
        PiggyBank.setDime(userinput.nextInt());
        System.out.println(" ");
        break;

    case 5:
        System.out.print("Enter amount of quarters: ");
        PiggyBank.setQuarter(userinput.nextInt());
        System.out.println(" ");
        break;

    case 6:
        System.out.print("Enter the amount of money you want to withdraw: $");
        double MoneyTakeOut = userinput.nextDouble();
        if (PiggyBank.TakeMoney(MoneyTakeOut)) {
            System.out.println("Remaining bank balance: $" + PiggyBank.getTotal());
        }
}
```

To fix I added a default case that will give the user an error and repeat the switch statement, prompting the user to enter a valid input (Shown below)

```
default: {  
    System.out.println("Invalid input | Please try again.");  
    break;  
}
```