My savings reflection log

First I declared all my variables which was my Initial balance, then I set up a users bank by an object, afterwards I started my while loop which will keep on coming back until the user inputs a 0. This is so that the application can keep running until the user decides to quit. And then I ask the user for their input while displaying all of their choices. I then used a switch case for every different choice these choices are linked through methods so that in my object all the work is being done.

```
Scanner input = new Scanner(System.in);
                //Prompt user for inital bank balance;
                                System.out.println("Enter your initial Balance in dollars: ");
//declaration for intial balance
                                double iB = input.nextDouble();
                                //Set up user's bank balance by using object
                                 piggybank userbank = new piggybank(iB);
                                //Start While loop to keep coming back to options until user inputs 0
                                        int choice = 10;
                                        while(choice !=0)
                                                 //Ask user and present their choices
                                                 System.out.println("1. Enter 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 out money.");
                                                 System.out.println("Enter 0 to QUIT");
                                                 System.out.println("Enter your choice: ");
                                                 choice = input.nextInt();
                                                 switch (choice)
                                                 case 0:
                                                         System.out.println("Quitting the program.");
                                                         System.out.println(userbank.toString());
                                                         System.out.println(userbank.AddP());
```

I created a public class called piggybank since I have this object in the mainmethod, then I created a private static double which only allows for the program to access these values in this specific class, I declared all my values based on the requirements. I then defined the total of the bank balance value. Using a numformat for money it will do that for me, I also used a decimal format which will allow for only 2 decimal places in my answers. In my constructor method I have methods for every choice that the user has.

```
public class piggybank {
//linking which values belong to piggy bank
    private static double
    P = 0.01, N= 0.05, D = 0.10, Q = 0.25;

//defining the total of the bank balance value
    private double BB;
//money formating
NumberFormat money = NumberFormat.getCurrencyInstance();
//using a decimal format to keep the correct amount of decimal places
DecimalFormat deca = new DecimalFormat("#.##");
```

```
public piggybank(double iB)
       BB= 0;
public double getB()
       return BB;
public String toString()
       String BB_String;
       BB_String = ("Your bank balance is: " + BB);
       return BB_String;
public double AddP()
       return P;
public double AddN()
       return N;
public double AddQ()
       return Q;
public double AddD()
       return D;
public char[] takeM(double m_out) {
       // TODO Auto-generated method stub
```