

The purpose of the following short program is to illustrate the unique characteristics of the toString method.

```
import chn.util.*;
public class BankTester
{
    public static void main(String[] args)
    {
        int penn, nick, dime, quart;
        ConsoleIO keyboard = new ConsoleIO();
        System.out.print("Enter the number of..." + "\npennies: ");
        penn = keyboard.readInt();
        System.out.print("nickels: ");
        nick = keyboard.readInt();
        System.out.print("dimes: ");
        dime = keyboard.readInt();
        System.out.print("quarters: ");
        quart = keyboard.readInt();
        PiggyBank collegeSaver = new PiggyBank(penn, nick, dime, quart);
        System.out.println();
        System.out.println(collegeSaver);
        System.out.println("\nYou have: " + collegeSaver.getNumQuarters() + " quarters, " +
            collegeSaver.getNumDimes() + " dimes, " +
            collegeSaver.getNumNickels() + " nickels, and " +
            collegeSaver.getNumPennies() + " pennies in your piggybank.");
    }
}

public class PiggyBank
{
    private int myPennies, myNickels, myDimes, myQuarters ;

    public PiggyBank(int pennies, int nickels, int dimes, int quarters)
    {
        myPennies = pennies;
        myNickels = nickels;
        myDimes = dimes;
        myQuarters = quarters;
    }

    public int getNumPennies()
    { return myPennies; }

    public int getNumNickels()
    { return myNickels; }

    public int getNumDimes()
    { return myDimes; }

    public int getNumQuarters()
    { return myQuarters; }

    private double calculateBankTotal()
    {
        double value = (myPennies + myNickels * 5 + myDimes * 10 + myQuarters * 25) / 100.0;
        return value;
    }

    public String toString()
    { return "\nThe value in your bank is: $" + this.calculateBankTotal(); }
}
```

OUTPUT:

Enter the number of...

pennies: 46

nickels: 23

dimes: 51

quarters: 19

The value in your bank is: \$11.46

You have: 19 quarters, 51 dimes, 23 nickels, and 46 pennies in your piggybank.