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/***************************
       File: BankAccount.java
       Project: BankAccount
       Description: This is part one of Lab3. Its job is to provide methods
                               and varibles.
       Author: Joshua Wiley
       Date: 2-15-15
       Comments: Specs were a little hard to follow. Not sure if I am
                 testing the right things in main.
***********************
public class BankAccount
       /*** Constants ***/
       private final double BALANCE = 0;
       private final double INTEREST RATE = 2;
       /*** Class Variables ***/
       private double balance, begBalance = BALANCE;
       private double interestRate = INTEREST RATE;
       private double interest = 0;
       /*** Constructors ***/
       public BankAccount( double balance, double interestRate )
          this.balance = balance;
          this.begBalance = balance;
          this.interestRate = interestRate;
       }
       public BankAccount( double balance )
           this.balance = balance;
           this.begBalance = balance;
           this.interestRate = INTEREST RATE;
       }
       /*** Class Methods -- Accessors ***/
       public double getInterestRate()
          return this.interestRate;
       public double getInterest()
         return this.interest;
       public double getBalance()
         return this.balance;
       }
       public double getbegBalance()
       {
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return this.begBalance;
}
@Override
public String toString()
   return "
                 Beginning Balance: $" + this.getbegBalance() + " Interest Rate: "
                 + this.getInterestRate() + "%";
}
/*** Mutators/transformers ***/
public void deposit( double amount )
  this.balance += amount;
public void withdraw( double amount )
   this.balance -= amount;
public void addInterest()
   this.interest = this.balance * ( this.interestRate / 1200 );
  this.balance = this.balance + this.interest;
}
/*** Application ***/
public static void main( String[] args )
   /*** Local Variable ***/
                                    " ;
   String space = "
   /*** Instantiate objects ***/
  BankAccount test = new BankAccount(500, 2);
   /*** Prints Test objects ***/
   System.out.println( "\n----- Testing Objects ----\n");
   System.out.println( space + "Balance: $" + test.getBalance() );
   test.deposit(20);
   System.out.println( space + "Deposit: $" + test.getBalance() );
   test.withdraw(10);
   System.out.println( space + "Withdrawal: $" + test.getBalance() );
   System.out.println( space + "Interest: " + test.getInterestRate() + "%" );
   System.out.println( space + "toString(): \n" );
   System.out.println( test.toString() );
}
```