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/** Account class per CIS2571 Lab #6 assignment */
public class Account {
  // data fields per textbook requiremetns
 private int id;
 private double balance;
 private static double annualInterestRate;
 private java.util.Date dateCreated;
  // CRE additions for lab assignment
 private String name;
  // no-arg constructor to create default account
 public Account() {
   dateCreated = new java.util.Date();
  // constructor that creates an account with specified id and initial balance
 public Account(int newId, double newBalance) {
    id = newId:
   balance = newBalance;
   dateCreated = new java.util.Date();
   // accessor methods id, balance, and annualInterestRate
 public int getId() {
    return this.id;
 public double getBalance() {
    return balance;
 public static double getAnnualInterestRate() {
    return annualInterestRate;
  // mutator methods for id, balance, and annualInterestRate
 public void setId(int newId) {
    id = newId;
 public void setBalance(double newBalance) {
    balance = newBalance;
 public static void setAnnualInterestRate(double newAnnualInterestRate) {
    annualInterestRate = newAnnualInterestRate;
  // CRE addition to return monthly interest amount for current balance
 public double getMonthlyInterest() {
    return balance * (annualInterestRate / 1200);
  }
```

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// accessor method for dateCreated
public java.util.Date getDateCreated() {
  return dateCreated;
}
// withdraws a specified amount from account
public void withdraw(double amount) {
    if (amount < balance)</pre>
       balance -= amount;
    else {
        System.out.println("Error! Cannot withdraw amount larger than
        balance!");
        System.exit(0);
    }
}
// deposit a specific amount to account
public void deposit(double amount) {
  balance += amount;
// additions for lab assignment
public String getName() {
    return name;
public void setName(String newName) {
    name = newName;
```