**Project: The Account Class**

Problem Description:

(*The Account class*) Design a class named Account that contains:

* A private int data field named id for the account (default 0).
* A private double data field named balance for the account (default 0).
* A private double data field named annualInterestRate that stores the current interest rate (default 0). Assume all accounts have the same interest rate.
* A private Date data field named dateCreated that stores the date when the account was created.
* A no-arg constructor that creates a default account.
* A constructor that creates an account with the specified id and initial balance.
* The accessor and mutator methods for id, balance, and annualInterestRate.
* The accessor method for dateCreated.
* A method named getMonthlyInterestRate() that returns the monthly interest rate.
* A method named withdraw that withdraws a specified amount from the account.
* A method named deposit that deposits a specified amount to the account.

Implement the class. Write a test program that creates an Account object with an account ID of 1122, a balance of $20,000, and an annual interest rate of 4.5%. Use the withdraw method to withdraw $2,500, use the deposit method to deposit $3,000, and print the balance, the monthly interest, and the date when this account was created.

Coding: (Copy and Paste Source Code here.

**public** **class** Test {

**public** **static** **void** main (String[] args) {

Account account = **new** Account(1122, 20000);

Account.*setAnnualInterestRate*(4.5);

account.withdraw(2500);

account.deposit(3000);

System.*out*.println("Balance is " + account.getBalance());

System.*out*.println("Monthly interest is " +

account.getMonthlyInterest());

System.*out*.println("This account was created at " +

account.getDateCreated());

}

}

class Account {

// Implement the class here

}