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\*/

public class Account {

|  |
| --- |
| Account account = new Account(1122, 20000); |
| account.setAnnualInterestRate(4.5); |
| account.withdraw(2500.0); |
| account.deposit(3000.0); |
| System.out.println("Balance: $" + account.getBalance()); |
| System.out.println("Monthly Interest: " + account.getMonthlyInterest()); |
| System.out.println("Date Created: " + account.getDateCreated()); |
|  |
| } |
| } |
|  |
| class Account { |
| private int id = 0; |
| private double balance = 0.0; |
| private static double annualInterestRate = 0.0; |
| private java.util.Date dateCreated; |
|  |
| public Account() { |
| dateCreated = new java.util.Date(); |
| } |
|  |
| public Account(int id, double balace) { |
| this(); |
| this.id = id; |
| this.balance = balance; |
| } |
|  |
| public int getId() { |
| return this.id; |
| } |
|  |
| public double getBalance() { |
| return this.balance; |
| } |
|  |
| public double getAnnualInterestRate() { |
| return annualInterestRate; |
| } |
|  |
| public String getDateCreated() { |
| return this.dateCreated.toString(); |
| } |
|  |
| public void setId(int id) { |
| this.id = id; |
| } |
|  |
| public void setBalance(double balance) { |
| this.balance = balance; |
| } |
|  |
| public void setAnnualInterestRate(double annualInterestRate) { |
| this.annualInterestRate = annualInterestRate; |
| } |
|  |
| public double getMonthlyInterestRate() { |
| return (annualInterestRate / 100) / 12 ; |
| } |
|  |
| public double getMonthlyInterest() { |
| return balance \* getMonthlyInterestRate(); |
| } |
|  |
| public void withdraw(double amount) { |
| this.balance -= amount; |
| } |
|  |
| public void deposit(double amount) { |
| this.balance += amount; |
| } |
| } |

private String accountNumber;

private String fullName;

private String openDate;

private double balance;

public Account(String accNumber, String fullname, String Date,double accBalance)

{

this.accountNumber = accNumber;

this.fullName = fullname;

this.openDate = Date;

this.balance = accBalance;

}

public void withdraw(double amount)

{

this.balance = this.balance - amount;

}

public void deposit(double amount)

{

this.balance = this.balance + amount;

}

public void transfer(Account a,double amount)

{

this.withdraw (amount);

a.deposit(amount);

}

//get methods

public String getAccountNumber()

{ return this.accountNumber;

}

public String getOpenDate()

{ return this.openDate;

}

public String getFullName()

{ return this.fullName;

}

public double getBalance()

{

return this.balance;

}

@Override

public String toString()

{

return this.accountNumber;

}

}