```
import java.util.ArrayList;
import java.util.Date;
public class Account {
   private int id;
   private double balance;
   private double annualInterestRate;
   private Date dateCreated = new Date();
   private String name;
   private ArrayList<Transaction> transactions = new ArrayList<>();
   public Account(){
   public Account(String name, int id, double balance){
       this.name = name;
       this.id = id;
       this.balance = balance;
   public Account(int id,double balance){
       this.id = id;
       this.balance = balance;
   public double getMonthlyInterestRate(){
       return annualInterestRate/12;
   public double getMonthlyInterest(){
       return balance * getMonthlyInterestRate()/100;
   public void withdraw(double amount){
       if (amount > balance) {
          System.out.println("***************************
       System.out.println("Withdraw :" + amount + " You can't withdraw
because not have enough money");
          else{
          if (amount > 0) {
              balance -= amount;
              transactions.add(new Transaction('W', amount, balance, ""));
          else{
          ********
          System.out.println("Withdraw :" + amount + " Error!!! please try it
again");
```

```
public void deposit(double amount){
   balance += amount;
   transactions.add(new Transaction('D', amount, balance, ""));
public int getId() {//accessor(get)
   return id;
public void setId(int id) {//mutator(set)
   this.id = id;
public double getBalance() {
   return balance;
public void setBalance(double balance) {
   this.balance = balance;
public double getAnnualInterestRate() {
   return annualInterestRate;
public void setAnnualInterestRate(double annualInterestRate) {
   this.annualInterestRate = annualInterestRate;
public Date getDateCreated() {
   return dateCreated;
public String getName() {
   return name;
public void setName(String name) {
   this.name = name;
public ArrayList<Transaction> getTransactions() {
   return transactions;
```