

```
import java.util.Scanner;

public class App {

    static Scanner scanner = new Scanner(System.in);

    public static void main(String[] args) throws Exception {

        Account account = new Account(1122, 20000, 4.5);

        System.out.print("Press (1) Withdraw, (2) Deposit, (3) Do nothing : ");

        int choose = scanner.nextInt();

        if(choose == 1){

            System.out.print("Amount : ");

            account.withdraw(scanner.nextDouble());

        }

        else if(choose == 2){

            System.out.print("Amount : ");

            account.deposit(scanner.nextDouble());

        }

        else if(choose == 3){

            System.out.println("END OF PROGRAM.");

            System.exit(0);

        }

        else{

            System.out.println("INPUT ERROR");

            System.exit(0);

        }

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

        System.out.println("Montly interest: " + account.getMonthlyInterest());

        System.out.println("Date created: " + account.getDateCreated());

    }

}
```

```
import java.sql.Date;

class Account {
    private int id;
    private double balance;
    private double annualInterestRate;
    private Date dateCreated;

    public Account(){
        this.id = 0;
        this.balance = 0;
        this.annualInterestRate = 0;
        this.dateCreated = new
java.sql.Date(System.currentTimeMillis());
    }

    public Account(int id,double balance,double annualInterestRate){
        this.id = id;
        this.balance = balance;
        this.annualInterestRate = annualInterestRate;
        this.dateCreated = new
java.sql.Date(System.currentTimeMillis());
    }

    //Setter

    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 void setDateCreated(Date dateCreated){
    this.dateCreated = dateCreated;
}

//Getter

public Double getMonthlyInterestRate(){
    return this.annualInterestRate/12;
}

public Double getMonthlyInterest(){
    return ((this.annualInterestRate/12)*this.balance)/100;
}

public Double getBalance(){
    return this.balance +
((this.annualInterestRate/100)*this.balance);
}

public Date getDateCreated(){
    return this.dateCreated;
}

public int getID(){
    return this.id;
}
```

```
//Method

public void withdraw(double withdraw){
    if(withdraw<0){
        System.out.println("INPUT ERROR");
    }
    else{
        this.balance -= withdraw;
    }
}

public void deposit(double deposit){
    if(deposit<0){
        System.out.println("INPUT ERROR");
    }
    else{
        this.balance += deposit;
    }
}
}
```