18/2/65 15:21 Account.java

```
import java.util.Date;
public class Account {
  //variables
  private int id=0;
  private double balance=0;
  private double annualInterestRate=0;
  private Date dateCreated;
  //constructor
  public Account(){
     dateCreated = new Date();
  public Account(int id,double balance){
     this.id = id;
     this.balance = balance;
     dateCreated = new Date();
  }
  //accessor
  public int getId()
                                   {return id;}
  public double getBalance()
                                       {return balance;}
  public double getAnnualInterestRate() {return annualInterestRate;}
  public Date getdateCreated()
                                        {return dateCreated;}
  //mutator
  public void setID(int id)
                                    \{this.id = id;\}
  public void setBalance(double balance) {this.balance = balance;}
  public void setAnnualInterestRate(double annualInterestRate){this.annualInterestRate=annualInterestRate;}
  //function
  public double getMonthlyInterestRate(){
     return annualInterestRate/12;
  public double getMonthlyInterest(){
     return balance*getMonthlyInterestRate();
  public void withdraw(double amount){
     if(balance<amount){
        System.out.println("Insufficient funds");
     }
     else{
        balance -= amount;
     }
  }
  public void deposit(double amount){
     if(amount<0){
        System.out.println("Invalid amount");
     }
     else{
        balance += amount;
     }
  public String toString(){
     return "Balance is "+this.getBalance() +
     "\nMonthly interest is "+this.getMonthlyInterest()+
      "\nDate created is "+this.getdateCreated();
  }
}
```