Name: Omar Ashraf Mabrouk

ID: 19P8102

Group 2 Sec 3

Account.java

public class account {  
 public int balance = 0;  
  
 public void increase\_balance(int amnt){  
 if(amnt < 0) return;  
 balance += amnt;  
 }  
 public void decrease\_balance(int amnt) {  
 if(amnt < 0 || amnt > balance) return;  
 balance -= amnt;  
 }  
}

ATM.java

public class ATM {  
 account acc = new account();  
 public void deposit\_amnt(int amnt){  
 acc.increase\_balance(amnt);  
 }  
 public void withdraw(int amnt){  
 acc.decrease\_balance(amnt);  
 }  
}

AccountTest.java

import org.junit.Assert;  
import org.junit.jupiter.api.Test;  
  
import static org.junit.Assert.*assertEquals*;  
public class accountTest{  
 @Test  
 public void increaseTest(){  
 account acc = new account();  
 acc.increase\_balance(100);  
 *assertEquals*(100, acc.balance);  
 }  
 @Test  
 public void increaseTestnegative(){  
 account acc = new account();  
 acc.increase\_balance(-100);  
 *assertEquals*(0, acc.balance);  
 }  
 @Test  
 public void decreaseZeroTest(){  
 account acc = new account();  
 acc.decrease\_balance(100);  
 *assertEquals*(0, acc.balance);  
 }  
  
 @Test  
 public void decrease(){  
 account acc = new account();  
 acc.balance = 1000;  
 acc.decrease\_balance(200);  
 *assertEquals*(800, acc.balance);  
 }  
  
 @Test  
 public void decrease\_more(){  
 account acc = new account();  
 acc.balance = 1000;  
 acc.decrease\_balance(1200);  
 *assertEquals*(1000, acc.balance);  
 }  
 @Test  
 public void decreasenegative(){  
 account acc = new account();  
 acc.balance = 1000;  
 acc.decrease\_balance(-200);  
 *assertEquals*(1000, acc.balance);  
 }  
}

ATMTest.java

import org.junit.jupiter.api.Test;  
  
import static org.junit.Assert.*assertEquals*;  
  
class ATMTest {  
 @Test  
 public void testDepo(){  
 ATM atm = new ATM();  
 atm.deposit\_amnt(100);  
 *assertEquals*(100, atm.acc.balance);  
 }  
 @Test  
 public void withdrawTest(){  
 ATM atm = new ATM();  
 atm.acc.balance = 1000;  
 atm.withdraw(250);  
 *assertEquals*(750, atm.acc.balance);  
 }  
}

A screenshot of a computer

Description automatically generated with medium confidence

Graphical user interface, text, application

Description automatically generated