Assignment 1

```
public class Rectangle {
    private int length;
    private int width;
    public Rectangle(int length, int width) {
        this.length = length;
        this.width = width;
    }
    public int area() {
        return length * width;
    }
    public static void main(String[] args) {
        Rectangle rectangle1 = new Rectangle(5, 10);
        Rectangle rectangle2 = new Rectangle(7, 3);

        if(rectangle1.area() > rectangle2.area()) {
            System.out.println("Rectangle 1 > Rectangle 2");
        } else if(rectangle1.area() < rectangle2.area()) {
            System.out.println("Rectangle 1 < Rectangle 2");
        } else{
            System.out.println("They are equal!");
        }
    }
}
```

OUTPUT:

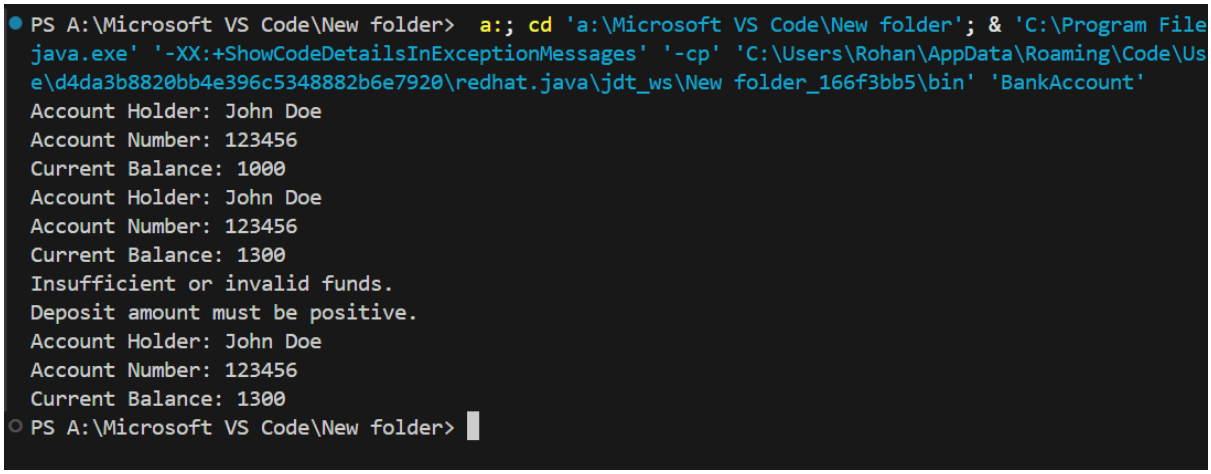
Assignment 2

```
public class BankAccount {
    String accHolderName;
    int accNumber;
    int balance;
    public BankAccount(String accHolderName, int accNumber, int balance) {
        this.accHolderName = accHolderName;
        this.accNumber = accNumber;
        this.balance = balance;
    }
    public String getAccHolderName() {
        return accHolderName;
    }
    public int getAccNumber() {
        return accNumber;
    }
    public int getBalance() {
        return balance;
    }
    public void setAccHolderName(String accHolderName) {
        this.accHolderName = accHolderName;
    }
    public void setAccNumber(int accNumber) {
        this.accNumber = accNumber;
    }
    public void setBalance(int balance) {
        this.balance = balance;
    }
    public int deposit(int amount) {
        if (amount > 0) {
            balance += amount;
```

```
            return balance;
        } else {
            System.out.println("Deposit amount must be positive.");
            return balance;
        }
    }
    public int withdraw(int amount) {
        if (amount > 0 && amount <= balance) {
            balance -= amount;
            return balance;
        } else {
            System.out.println("Insufficient or invalid funds.");
            return balance;
        }
    }
    public void display(){
        System.out.println("Account Holder: " + accHolderName);
        System.out.println("Account Number: " + accNumber);
        System.out.println("Current Balance: " + balance);
    }

    public static void main(String[] args) {
        BankAccount account = new BankAccount("John Doe", 123456, 1000);
        account.display();
        account.deposit(500);
        account.withdraw(200);
        account.display();
        account.withdraw(1500);
        account.deposit(-100);
        account.display();
    }
}
```

OUTPUT:


PS A:\Microsoft VS Code\New folder> a:; cd 'a:\Microsoft VS Code\New folder'; & 'C:\Program File
java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Rohan\AppData\Roaming\Code\Us
e\d4da3b8820bb4e396c5348882b6e7920\redhat.java\jdt_ws\New folder_166f3bb5\bin' 'BankAccount'
Account Holder: John Doe
Account Number: 123456
Current Balance: 1000
Account Holder: John Doe
Account Number: 123456
Current Balance: 1300
Insufficient or invalid funds.
Deposit amount must be positive.
Account Holder: John Doe
Account Number: 123456
Current Balance: 1300
PS A:\Microsoft VS Code\New folder>