

Assignment no: 01

Code:

```
public class Rectangle {
    int length;
    int width;

    public Rectangle(int length, int width) {
        this.length = length;
        this.width = width;
    }

    public int calculateArea() {
        return length * width;
    }

    public static void main(String[] args) {

        Rectangle r1 = new Rectangle(10, 5);
        Rectangle r2 = new Rectangle(7, 8);

        int area1 = r1.calculateArea();
        int area2 = r2.calculateArea();

        System.out.println("Area of Rectangle1: " + area1);
        System.out.println("Area of Rectangle2: " + area2);

        if (area1 > area2) {
            System.out.println("Rectangle1 > Rectangle2");
        }
        else if (area1 < area2) {
            System.out.println("Rectangle1 < Rectangle2");
        }
        else {
            System.out.println("They are equal");
        }
    }
}
```

Outputs:

```
● PS W:\Tranning\lab codes> & 'C:\Program Files\Eclipse A
,address=localhost:61409' '-XX:+ShowCodeDetailsInExceptio
b3461ba30789740ace7c\redhat.java\jdt_ws\lab codes_5b726f
Area of Rectangle1: 50
Area of Rectangle2: 56
Rectangle1 < Rectangle2
○ PS W:\Tranning\lab codes>
```

Assignment no: 02

Code:

```
import java.util.Scanner;
public class BankAccount {
    private String accountHolderName;
    private int accountNumber;
    private int balance;

    public BankAccount(String accountHolderName, int accountNumber, int
balance) {
        this.accountHolderName = accountHolderName;
        this.accountNumber = accountNumber;
        this.balance = balance;
    }
    public String getAccountHolderName() {
        return accountHolderName;
    }
    public int getAccountNumber() {
        return accountNumber;
    }
    public int getBalance() {
        return balance;
    }
    public void setAccountHolderName(String accountHolderName) {
        this.accountHolderName = accountHolderName;
    }
    public void setAccountNumber(int accountNumber) {
        this.accountNumber = accountNumber;
    }
    public void setBalance(int balance) {
        this.balance = balance;
    }
    public void deposit(int amount) {
        if (amount > 0) {
            balance += amount;
            System.out.println("Deposited: " + amount);
        } else {
            System.out.println("Deposit amount must be positive.");
        }
    }
    public void withdraw(int amount) {
        if (amount > 0 && amount <= balance) {
            balance -= amount;
            System.out.println("Withdrawn: " + amount);
        } else {
            System.out.println("Invalid withdrawal amount.");
        }
    }
}
```

```

    }
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter account holder name: ");
        String name = scanner.nextLine();

        System.out.print("Enter account number: ");
        int accNumber = scanner.nextInt();

        System.out.print("Enter initial balance: ");
        int initialBalance = scanner.nextInt();

        BankAccount account = new BankAccount(name, accNumber,
initialBalance);

        System.out.print("Enter deposit amount: ");
        int depositAmount = scanner.nextInt();
        account.deposit(depositAmount);

        System.out.print("Enter withdrawal amount: ");
        int withdrawAmount = scanner.nextInt();
        account.withdraw(withdrawAmount);

        int currentBalance = account.getBalance();
        System.out.println("Current Balance: " + currentBalance);

        String status = (currentBalance >= 5000) ? "Minimum Balance
Maintained" : "Minimum Balance not Maintained";
        System.out.println("Status: " + status);

        scanner.close();
    }
}

```

Output:

```

● PS W:\Tranning\lab codes> & 'C:\Program Files\Eclipse Adop
,address=localhost:61510' '-XX:+ShowCodeDetailsInExceptionM
b3461ba30789740ace7c\redhat.java\jdt_ws\lab_codes_5b726f0f\
Enter account holder name: Piyush Bhadade
Enter account number: 12345678
Enter initial balance: 100000
Enter deposit amount: 50000
Deposited: 50000
Enter withdrawal amount: 20000
Withdrawn: 20000
Current Balance: 130000
Status: Minimum Balance Maintained
○ PS W:\Tranning\lab codes> 

```

- PS W:\Tranning\lab codes> w;; cd 'w:\Tranning\lab codes'; & 'C:\Program Files\Java\jdk-9.0.4\bin\java.exe' -Xmx1024m -Xms128m -Dport=dt_socket,server=n,suspend=y,address=localhost:61578' '-XX:MaxPermSize=256m' -jar C:\Users\Piyush\workspaceStorage\aa5a398895d2b3461ba30789740ace7c\redhat.jar
Enter account holder name: Piyush Bhadade
Enter account number: 1234567
Enter initial balance: 1000
Enter deposit amount: 500
Deposited: 500
Enter withdrawal amount: 900
Withdrawn: 900
Current Balance: 600
Status: Minimum Balance not Maintained
- PS W:\Tranning\lab codes> █