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 {

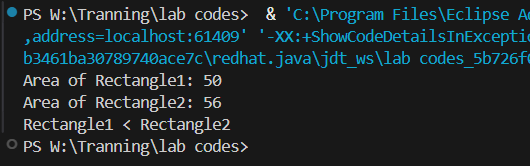
            System.out.println("They are equal");

        }

    }

}

Outputs:



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            System.out.println("Withdrawn: " + amount);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:

