# Dhaka International University (DIU)

# Department of CSE
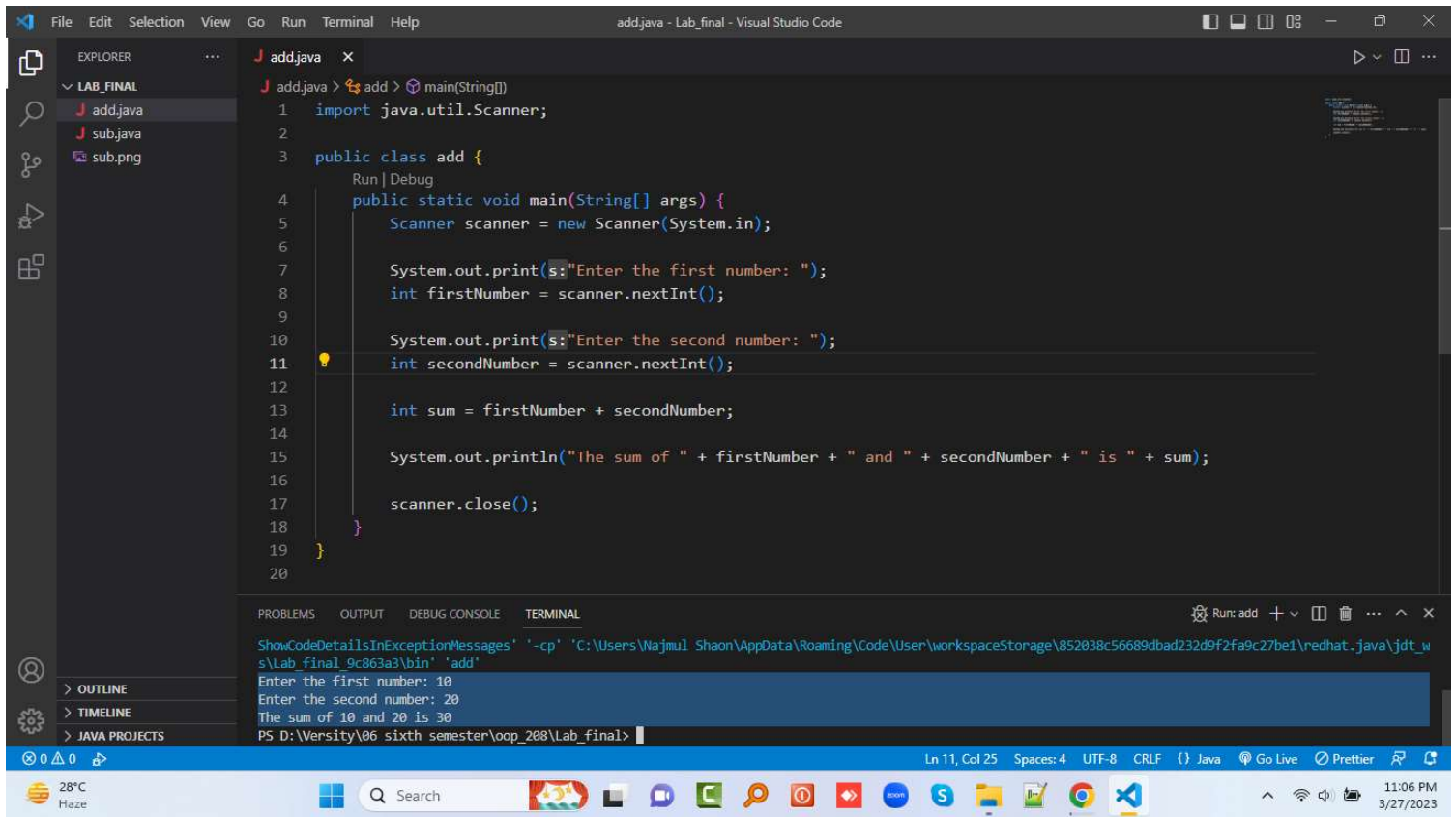
## Lab Final

Course Title: Object Oriented Programming Lab

Course Code: CSE-208

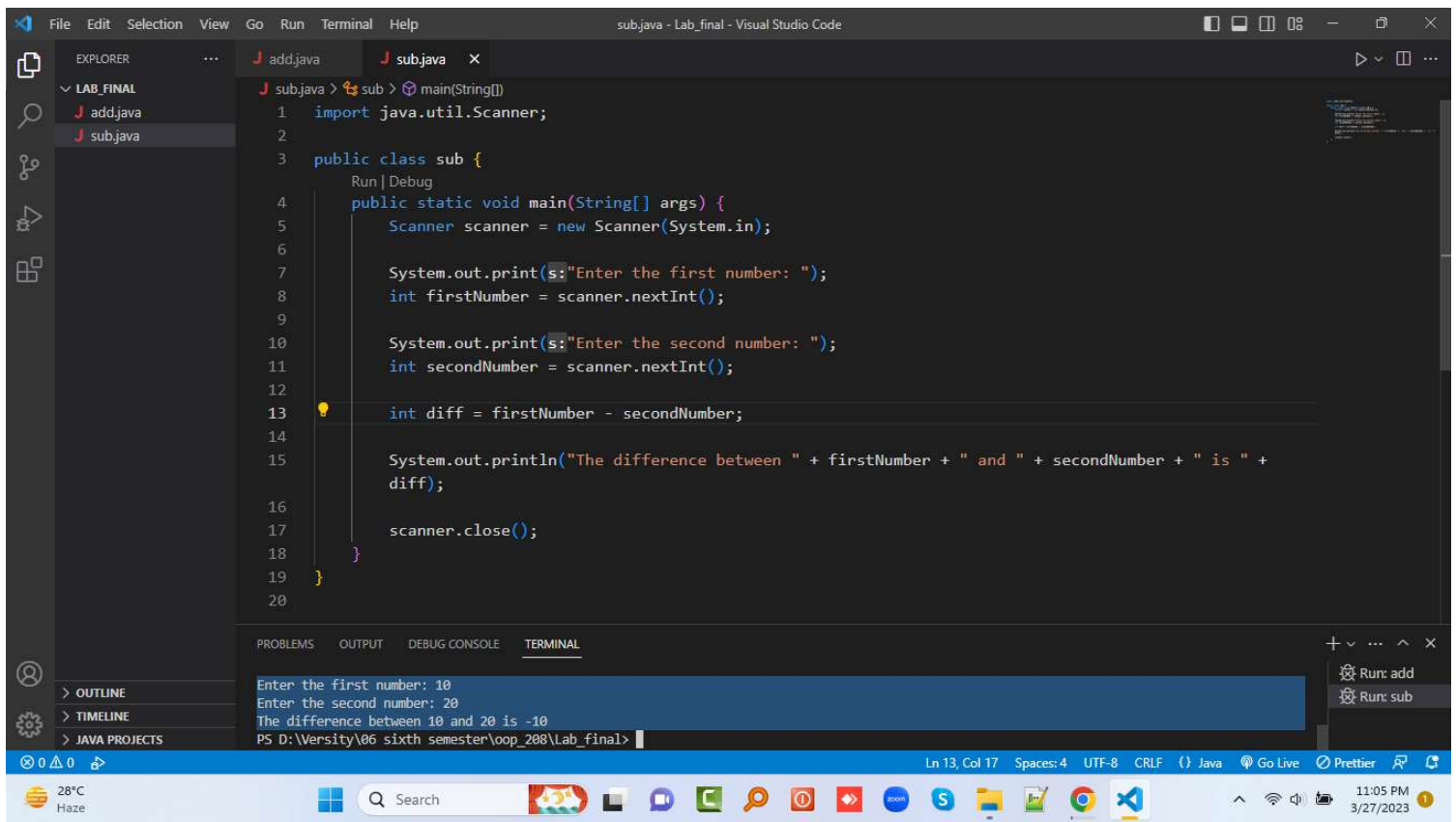| Submitted By | Submitted To |
|---|---|
| Name: Najmul Hasan<br>Roll: 65<br>Semester: 6th<br>Batch: E-88 (2nd shift) | Md Mahbubur Rahman<br>Asst. Professor<br>Dhaka International University (DIU) |

# Group Basic: Problem 05(add)



```java
import java.util.Scanner;

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

        System.out.print("Enter the first number: ");
        int firstNumber = scanner.nextInt();

        System.out.print("Enter the second number: ");
        int secondNumber = scanner.nextInt();

        int sum = firstNumber + secondNumber;

        System.out.println("The sum of " + firstNumber + " and " + secondNumber + " is " + sum);

        scanner.close();
    }
}
```

Terminal output:
```
Enter the first number: 10
Enter the second number: 20
The sum of 10 and 20 is 30
```

# Group Basic: Problem 05(Sub)
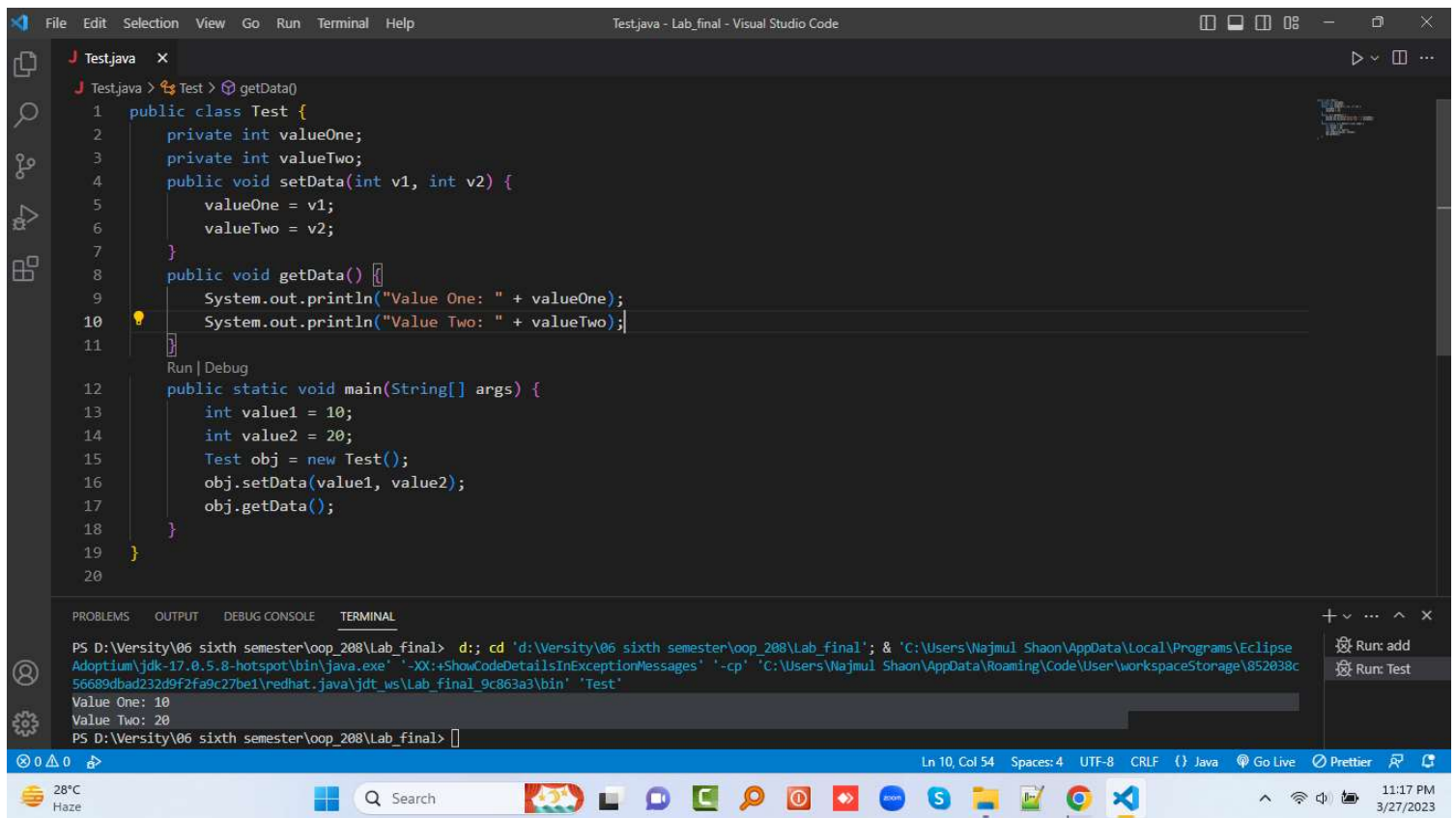


```java
import java.util.Scanner;

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

        System.out.print("Enter the first number: ");
        int firstNumber = scanner.nextInt();

        System.out.print("Enter the second number: ");
        int secondNumber = scanner.nextInt();

        int diff = firstNumber - secondNumber;

        System.out.println("The difference between " + firstNumber + " and " + secondNumber + " is " + diff);

        scanner.close();
    }
}
```

Terminal output:
```
Enter the first number: 10
Enter the second number: 20
The difference between 10 and 20 is -10
```

## Group Intermediate: Problem 03

```java
public class Test {
    private int valueOne;
    private int valueTwo;
    public void setData(int v1, int v2) {
        valueOne = v1;
        valueTwo = v2;
    }
    public void getData() {
        System.out.println("Value One: " + valueOne);
        System.out.println("Value Two: " + valueTwo);
    }
    public static void main(String[] args) {
        int value1 = 10;
        int value2 = 20;
        Test obj = new Test();
        obj.setData(value1, value2);
        obj.getData();
    }
}
```
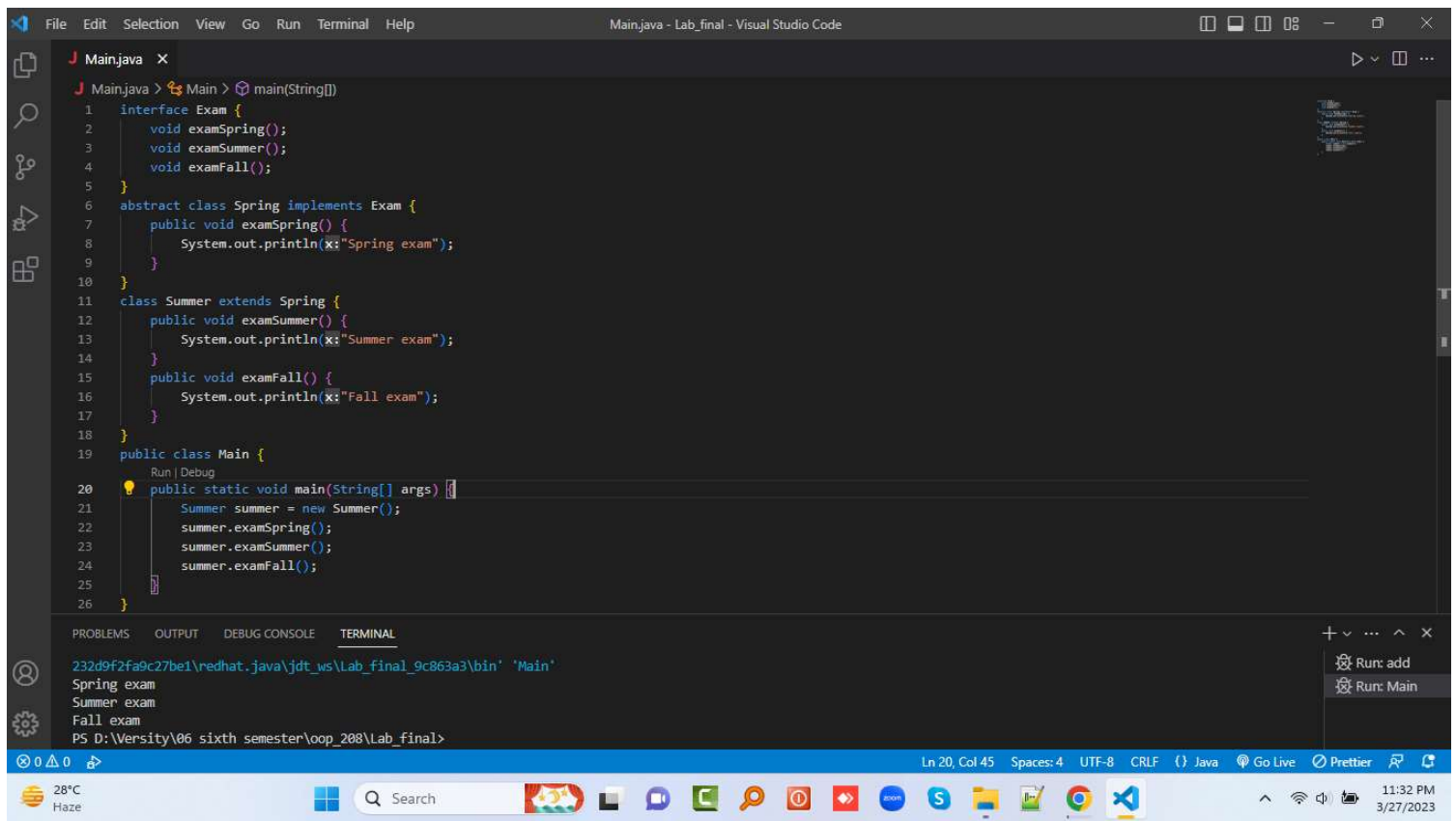
```
PS D:\Versity\06 sixth semester\oop_208\Lab_final> d:; cd 'd:\Versity\06 sixth semester\oop_208\Lab_final'; & 'C:\Users\Najmul Shaon\AppData\Local\Programs\Eclipse
Adoptium\jdk-17.0.5.8-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Najmul Shaon\AppData\Roaming\Code\User\workspaceStorage\852038c
56689dbad232d9f2fa9c27be1\redhat.java\jdt_ws\Lab_final_9c863a3\bin' 'Test'
Value One: 10
Value Two: 20
PS D:\Versity\06 sixth semester\oop_208\Lab_final>
```

## Group Complex: Problem 03

```java
interface Exam {
    void examSpring();
    void examSummer();
    void examFall();
}
abstract class Spring implements Exam {
    public void examSpring() {
        System.out.println(x:"Spring exam");
    }
}
class Summer extends Spring {
    public void examSummer() {
        System.out.println(x:"Summer exam");
    }
    public void examFall() {
        System.out.println(x:"Fall exam");
    }
}
public class Main {
    public static void main(String[] args) {
        Summer summer = new Summer();
        summer.examSpring();
        summer.examSummer();
        summer.examFall();
    }
}
```

```
232d9f2fa9c27be1\redhat.java\jdt_ws\Lab_final_9c863a3\bin' 'Main'
Spring exam
Summer exam
Fall exam
PS D:\Versity\06 sixth semester\oop_208\Lab_final>
```