

Session-3 Lab

ASSIGNMENT 05

```
package com.san.jay;

public class Student {

    private String name;

    private int age;

    private String department;

    public Student(String name, int age, String department) {

        this.name = name;

        this.age = age;

        this.department = department;

    }

    public String getName() {

        return name;

    }

    public void setName(String name) {

        this.name = name;

    }

    public int getAge() {

        return age;

    }

    public void setAge(int age) {

        this.age = age;

    }

    public String getDepartment() {

        return department;

    }

    public void setDepartment(String department) {

        this.department = department;

    }

    public void displayStudent() {

        System.out.println("Student Details:");
```

```

        System.out.println("Name : " + name);

        System.out.println("Age : " + age);

        System.out.println("Department : " + department);

    }

    public static void main(String[] args) {

        Student s1 = new Student("Dinesh", 22, "Mechanical engineering");

        s1.displayStudent();

        s1.setName("Dinesh");

        s1.setAge(23);

        s1.setDepartment("Mechanical engineeering");

        System.out.println("After updating using setters:");

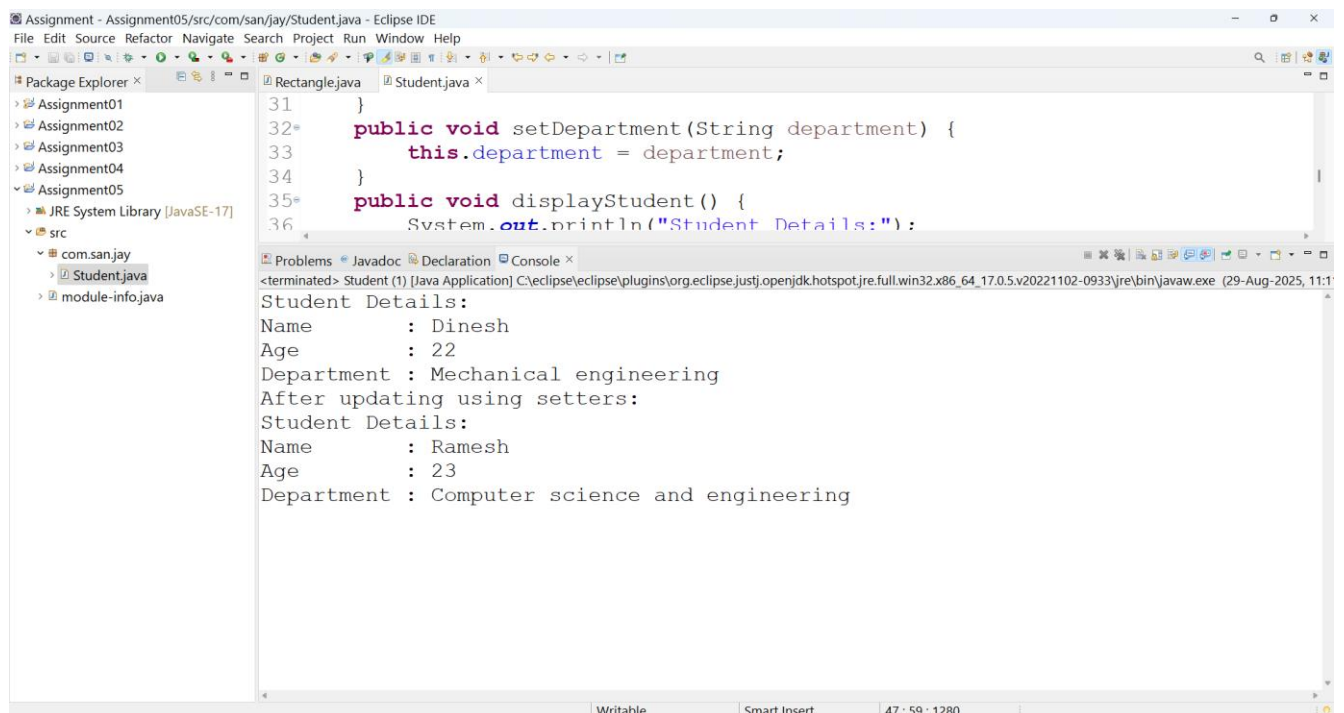
        s1.displayStudent();

    }

}

```

ASSIGNMENT 05 – OUTPUT



The screenshot shows the Eclipse IDE interface. The Package Explorer on the left displays the project structure for 'Assignment05', including the 'src' folder and the 'com.san.jay' package containing 'Student.java'. The main editor window shows the 'Student.java' file with the following code:

```

31     }
32     public void setDepartment(String department) {
33         this.department = department;
34     }
35     public void displayStudent() {
36         System.out.println("Student Details:");

```

The Console window at the bottom shows the output of the program:

```

<terminated> Student (1) [Java Application] C:\eclipse\ eclipse\plugins\org.eclipse.justi.openjdk hotspot\jre.full.win32.x86_64_17.0.5.v20221102-0933\jre\bin\javaw.exe (29-Aug-2025, 11:1
Student Details:
Name      : Dinesh
Age       : 22
Department : Mechanical engineering
After updating using setters:
Student Details:
Name      : Ramesh
Age       : 23
Department : Computer science and engineering

```

ASSIGNMENT 06

```
package com.san.jay;
```

```
import java.util.Scanner;
```

```
    public class Calculator {
```

```
        public int add(int a, int b) {
```

```
            return a + b;
```

```
        }
```

```
        public int add(int a, int b, int c) {
```

```
            return a + b + c;
```

```
        }
```

```
        public double add(double a, double b) {
```

```
            return a + b;
```

```
        }
```

```
        public static void main(String[] args) {
```

```
            Calculator calc = new Calculator();
```

```
            Scanner sc = new Scanner(System.in);
```

```
            System.out.println("Enter two integers for addition:");
```

```
            int x = sc.nextInt();
```

```
            int y = sc.nextInt();
```

```
            System.out.println("Sum of two integers: " + calc.add(x, y));
```

```
            System.out.println("\nEnter three integers for addition:");
```

```
            int p = sc.nextInt();
```

```
            int q = sc.nextInt();
```

```
            int r = sc.nextInt();
```

```
            System.out.println("Sum of three integers: " + calc.add(p, q, r));
```

```
            System.out.println("\nEnter two doubles for addition:");
```

```
            double d1 = sc.nextDouble();
```

```
            double d2 = sc.nextDouble();
```

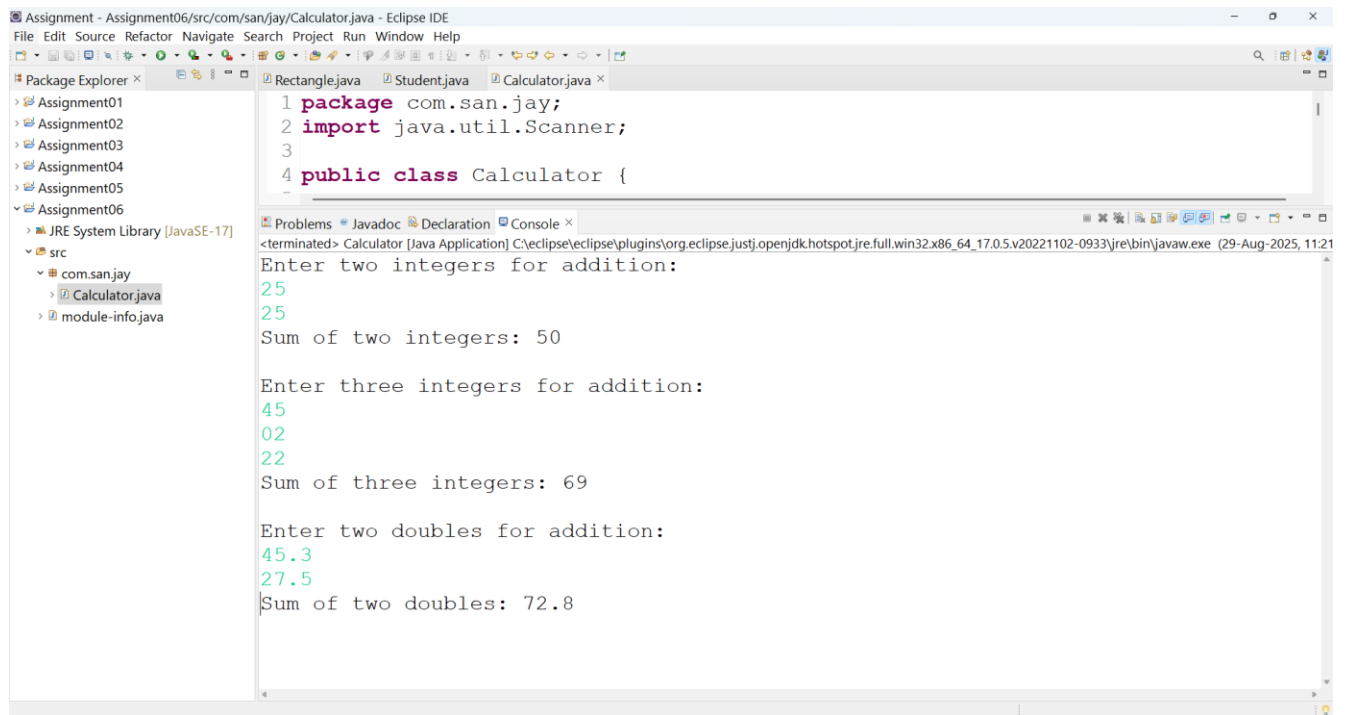
```
            System.out.println("Sum of two doubles: " + calc.add(d1, d2));
```

```
            sc.close();
```

```
        }
```

```
    }
```

ASSIGNMENT 06 – OUTPUT



The screenshot displays the Eclipse IDE interface. The Package Explorer on the left shows a project named 'Assignment06' with a source folder 'src' containing a package 'com.san.jay'. Inside this package, the file 'Calculator.java' is selected. The main editor window shows the code for 'Calculator.java', which includes a package declaration, an import statement for 'Scanner', and the start of a 'public class Calculator'.

```
1 package com.san.jay;
2 import java.util.Scanner;
3
4 public class Calculator {
```

Below the code editor, the Console view is open, showing the output of the program. The output indicates that the program has terminated and displays the results of three addition operations: two integers, three integers, and two doubles.

```
<terminated> Calculator [Java Application] C:\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.5.v20221102-0933\jre\bin\javaw.exe (29-Aug-2025, 11:21)
Enter two integers for addition:
25
25
Sum of two integers: 50

Enter three integers for addition:
45
02
22
Sum of three integers: 69

Enter two doubles for addition:
45.3
27.5
Sum of two doubles: 72.8
```