

Session-2 Lab

ASSIGNMENT 01

```
package Student.java;

public class Student {

    private String studentName;

    private String collegeName;

    private int studentID;

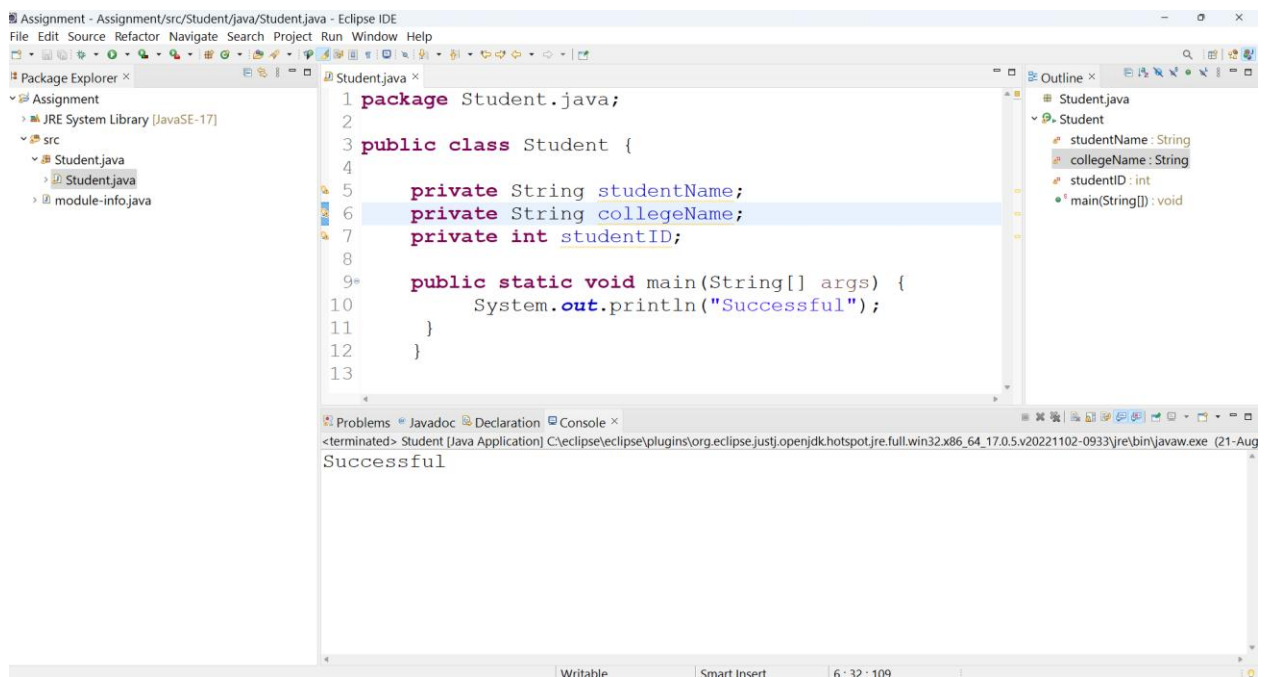
    public static void main(String[] args) {

        System.out.println("Successful");

    }

}
```

ASSIGNMENT 01 – OUTPUT



ASSIGNMENT 02

```
package com.employee.san;

public class Employee {

    protected int id;

    protected int age;

    protected String name;

    protected boolean isPermanent;

    public static void main(String[] args) {

        Employee emp = new Employee();

        emp.id = 101;

        emp.age = 35.5;                /*without casting*/

        emp.name = "John Doe";

        emp.isPermanent = true;

        System.out.println("Successfully started");

    }

}
```

```
package com.employee.san;

public class Employee {

    protected int id;

    protected int age;

    protected String name;

    protected boolean isPermanent;

    public static void main(String[] args) {

        Employee emp = new Employee();

        emp.id = 101;

        emp.age = (int)35.5;

        emp.name = "John Doe";

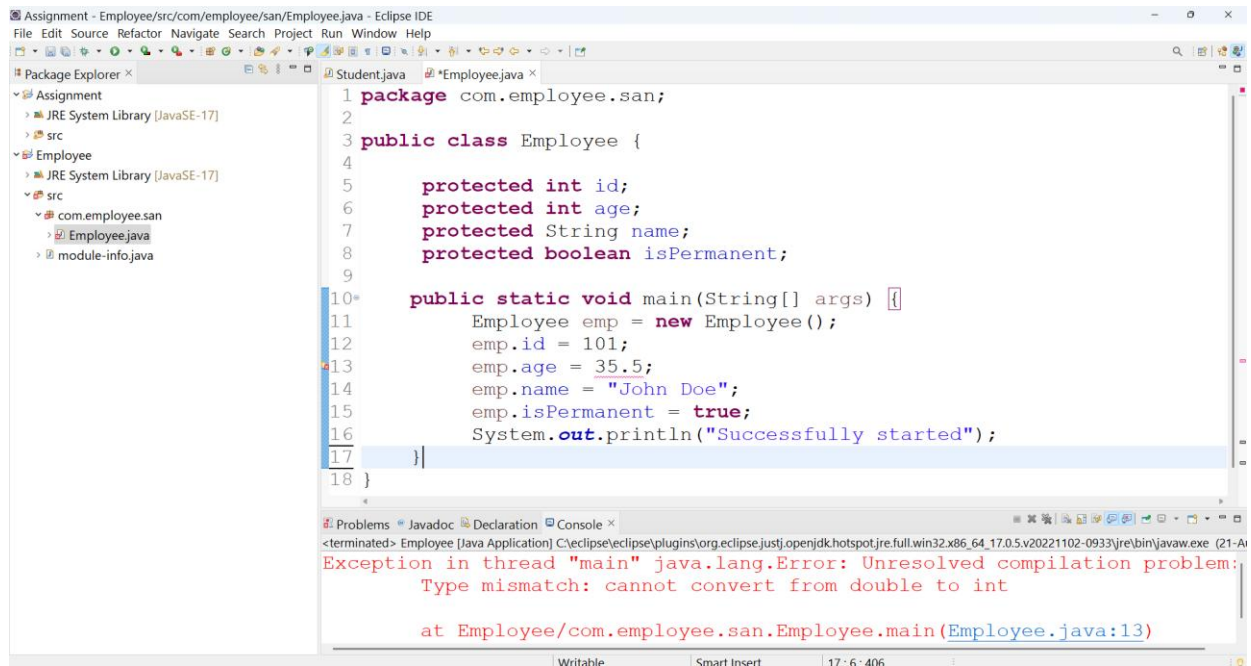
        emp.isPermanent = true;

        System.out.println("Successfully started");

    }

}
```

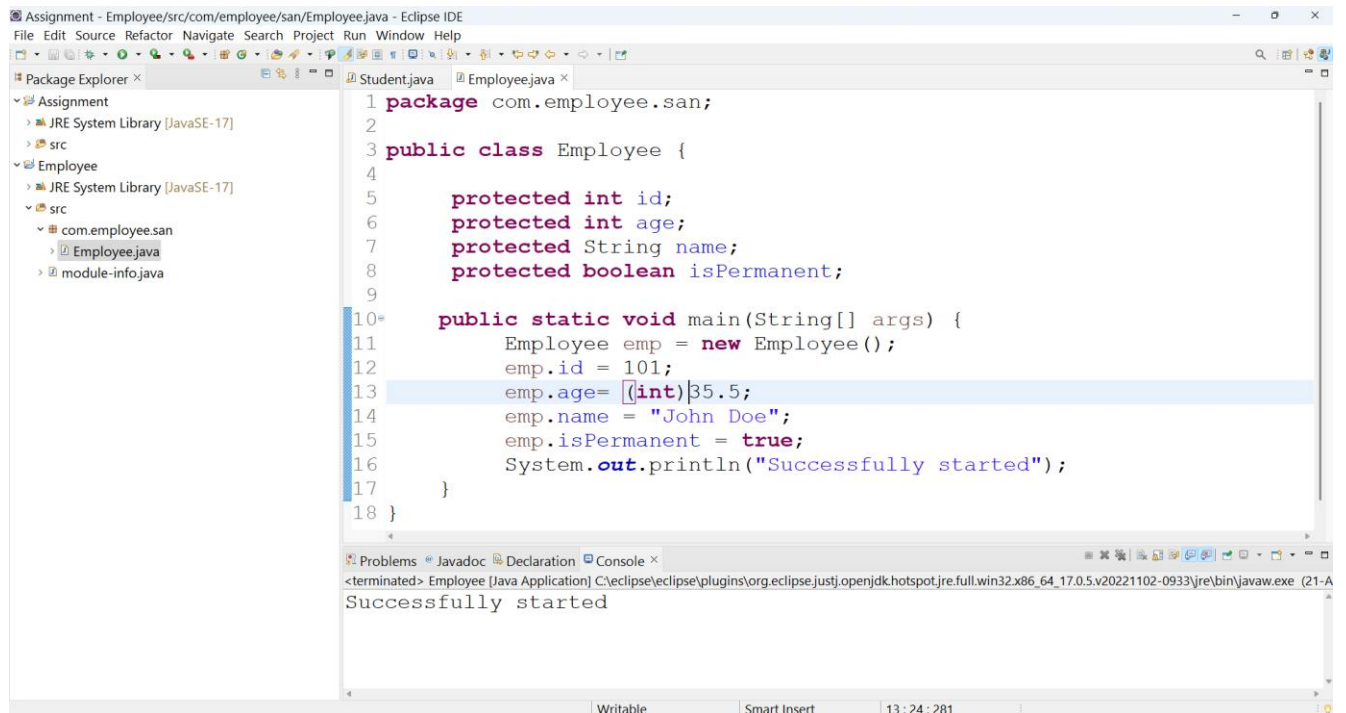
ASSIGNMENT 02 – OUTPUT



The screenshot shows the Eclipse IDE with the `Employee.java` file open. The code defines a package `com.employee.san` and a class `Employee` with attributes `id`, `age`, `name`, and `isPermanent`. The `main` method creates an `Employee` object and sets its attributes, including `age = 35.5`. The console output shows a `NullPointerException` in the `main` method at line 13, with the message: "Exception in thread 'main' java.lang.Error: Unresolved compilation problem: Type mismatch: cannot convert from double to int".

```
1 package com.employee.san;
2
3 public class Employee {
4
5     protected int id;
6     protected int age;
7     protected String name;
8     protected boolean isPermanent;
9
10    public static void main(String[] args) {
11        Employee emp = new Employee();
12        emp.id = 101;
13        emp.age = 35.5;
14        emp.name = "John Doe";
15        emp.isPermanent = true;
16        System.out.println("Successfully started");
17    }
18 }
```

Exception in thread "main" java.lang.Error: Unresolved compilation problem:
Type mismatch: cannot convert from double to int
at Employee/com.employee.san.Employee.main(Employee.java:13)



The screenshot shows the Eclipse IDE with the `Employee.java` file open. The code is the same as in the previous screenshot, but the `age` attribute is now set to `35` (an integer) instead of `35.5` (a double). The console output shows "Successfully started", indicating that the program ran without errors.

```
1 package com.employee.san;
2
3 public class Employee {
4
5     protected int id;
6     protected int age;
7     protected String name;
8     protected boolean isPermanent;
9
10    public static void main(String[] args) {
11        Employee emp = new Employee();
12        emp.id = 101;
13        emp.age = 35;
14        emp.name = "John Doe";
15        emp.isPermanent = true;
16        System.out.println("Successfully started");
17    }
18 }
```

Successfully started

ASSIGNMENT 03

```
package com.sanjay.vs;
```

```
public class Person {
```

```
    String name = "Sanjay";
```

```
    int age = 25;
```

```
    int salary = 150000;
```

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

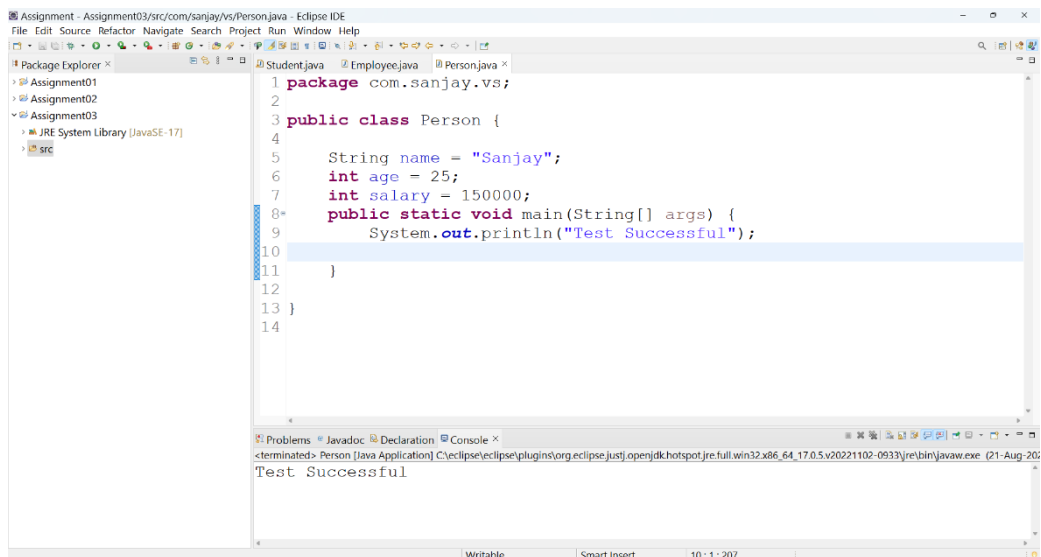
```
        System.out.println("Test Successful");
```

```
    }
```

```
}
```

ASSIGNMENT 03 – OUTPUT

1

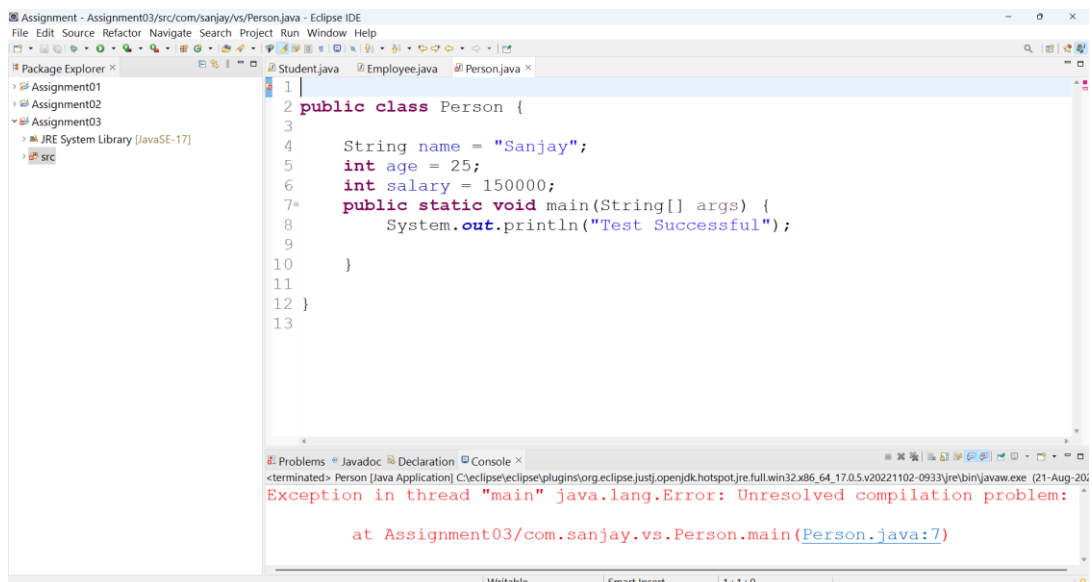


The screenshot shows the Eclipse IDE with the file 'Person.java' open. The code is as follows:

```
1 package com.sanjay.vs;
2
3 public class Person {
4
5     String name = "Sanjay";
6     int age = 25;
7     int salary = 150000;
8     public static void main(String[] args) {
9         System.out.println("Test Successful");
10    }
11 }
12
13 }
14
```

The console output at the bottom shows: `<terminated> Person [Java Application] C:\eclipse\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.5.v20221102-0933\jre\bin\javaw.exe (21-Aug-2023) Test Successful`

2



The screenshot shows the Eclipse IDE with the file 'Person.java' open. The code is as follows:

```
1
2 public class Person {
3
4     String name = "Sanjay";
5     int age = 25;
6     int salary = 150000;
7     public static void main(String[] args) {
8         System.out.println("Test Successful");
9     }
10 }
11
12 }
13
```

The console output at the bottom shows a red error message: `Exception in thread "main" java.lang.Error: Unresolved compilation problem: at Assignment03/com.sanjay.vs.Person.main(Person.java:7)`

ASSIGNMENT 04

```
package com.sanjay.vs;

public class Rectangle {

    double width;

    double height;

    enum Color {

        RED, GREEN, BLUE

    }

    Color boxColor;

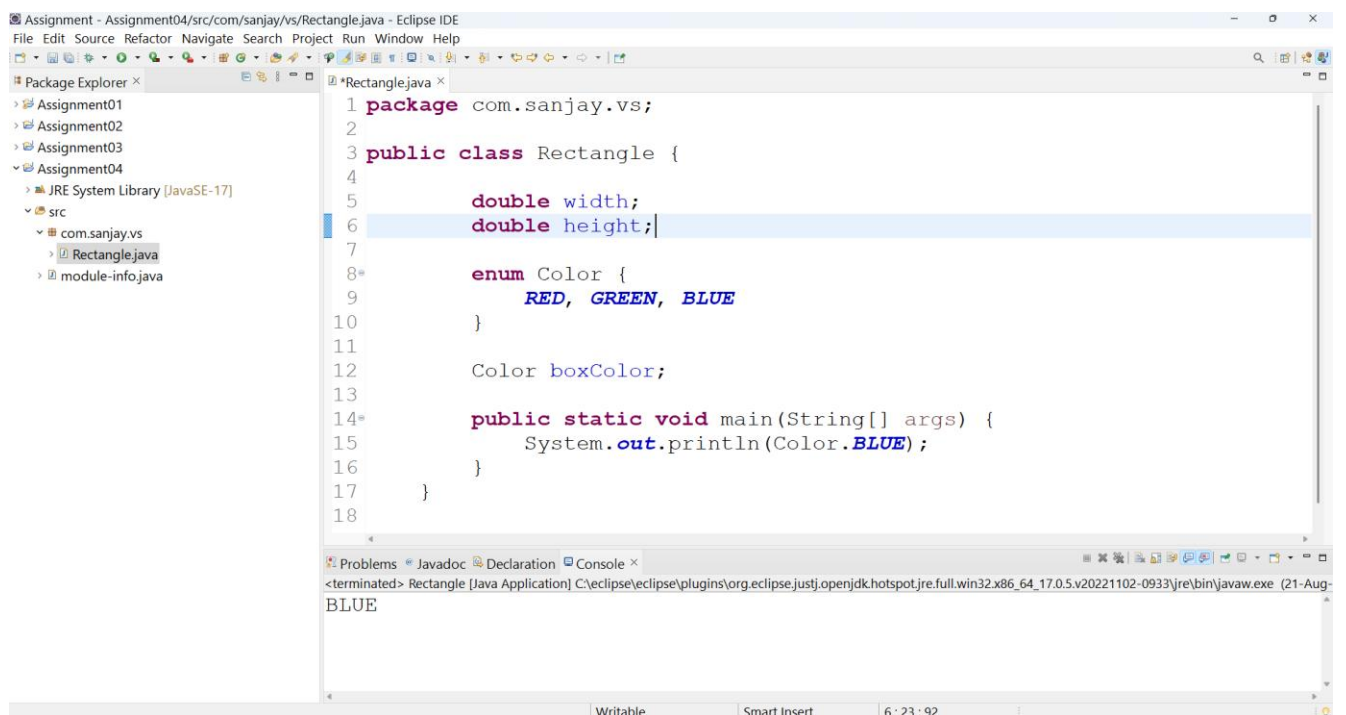
    public static void main(String[] args) {

        System.out.println(Color.BLUE);

    }

}
```

ASSIGNMENT 04 – OUTPUT



The screenshot shows the Eclipse IDE interface. The Package Explorer on the left displays the project structure: Assignment01, Assignment02, Assignment03, and Assignment04. Under Assignment04, the 'src' folder contains 'com.sanjay.vs', which includes 'Rectangle.java' and 'module-info.java'. The main editor window shows the code for 'Rectangle.java', with lines 1 through 18. The code is identical to the one provided in the first block. The Console window at the bottom shows the output: '<terminated> Rectangle [Java Application] C:\eclipse\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.5.v20221102-0933\jre\bin\javaw.exe (21-Aug-2022) BLUE'. The status bar at the bottom indicates 'Writable', 'Smart Insert', and the time '6 : 23 : 92'.

```
1 package com.sanjay.vs;
2
3 public class Rectangle {
4
5     double width;
6     double height;
7
8     enum Color {
9         RED, GREEN, BLUE
10    }
11
12    Color boxColor;
13
14    public static void main(String[] args) {
15        System.out.println(Color.BLUE);
16    }
17
18 }
```

<terminated> Rectangle [Java Application] C:\eclipse\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.5.v20221102-0933\jre\bin\javaw.exe (21-Aug-2022) BLUE