

OM MITTAL

500096091

R2142210982

EXPERIMENT 5:-

ANSWER1)

```
1 package area;
2 public class question1part1 {
3     public double areaOffTriangle(int base, int height) {
4         return (base*height)/2;
5     }
6     public static void main(String args[]) {
7         System.out.println("#Om Mittal");
8         System.out.println("#500096091");
9     }
10 }
11 }
```

Console Output:

```
#Om Mittal
#500096091
```

```
1 package areaOffTriangle;
2 import area.*;
3
4 public class question1part2 {
5     public static void main(String[] args) {
6         question1part1 a = new question1part1();
7         System.out.println("Area of triangle: "+a.areaOffTriangle(10, 20));
8         System.out.println("#Om Mittal");
9         System.out.println("#500096091");
10    }
11 }
12 }
13 }
```

Console Output:

```
Area of triangle: 100.0
#Om Mittal
#500096091
```

CODE:-

```
package area;
public class question1part1 {
    public double areaOfTriangle(int base, int height) {
        return (base*height)/2;
    }
    public static void main(String args[]) {
        System.out.println("#Om Mittal");
        System.out.println("#500096091");
    }
}

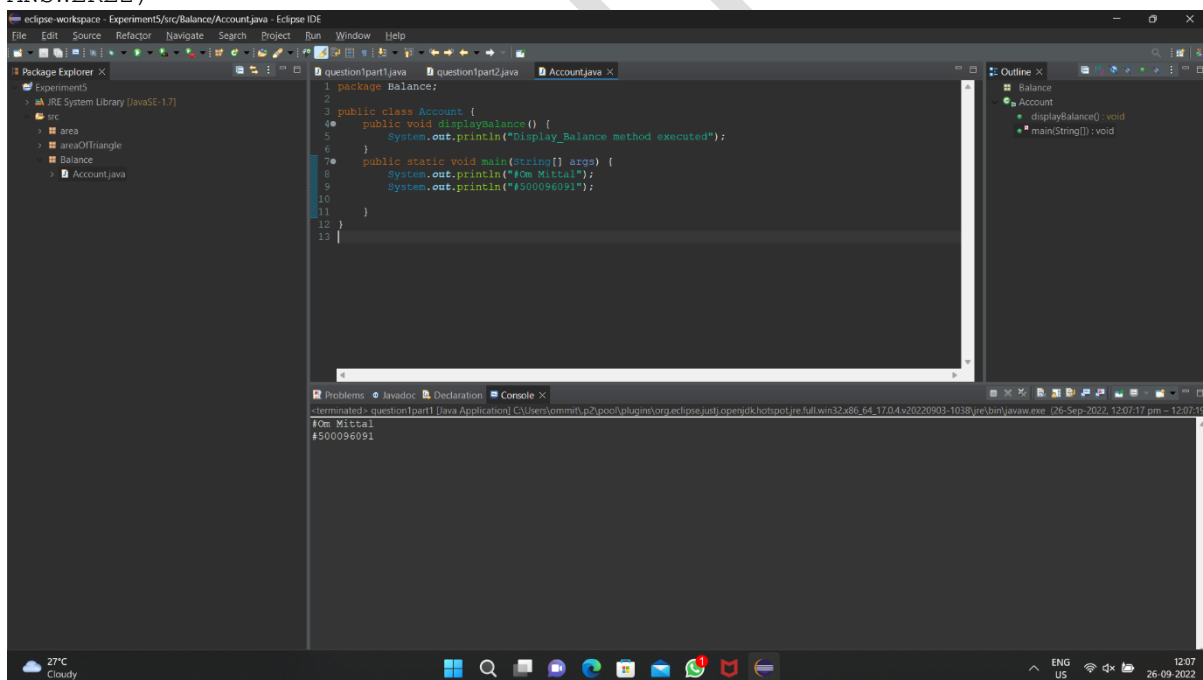
package areaOfTriangle;
import area.*;

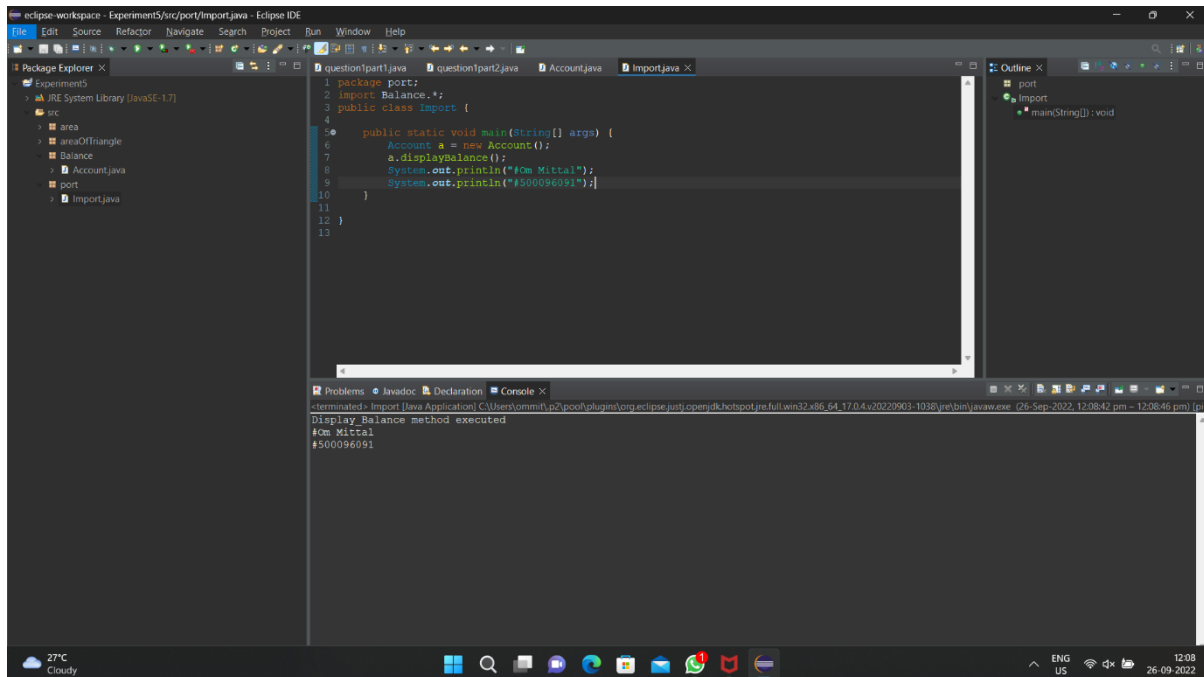
public class question1part2 {
    public static void main(String[] args) {
        question1part1 a = new question1part1();
        System.out.println("Area of trianlge: "+a.areaOfTriangle(10,
20));

        System.out.println("#Om Mittal");
        System.out.println("#500096091");
    }
}

}
```

ANSWER2)





CODE:-

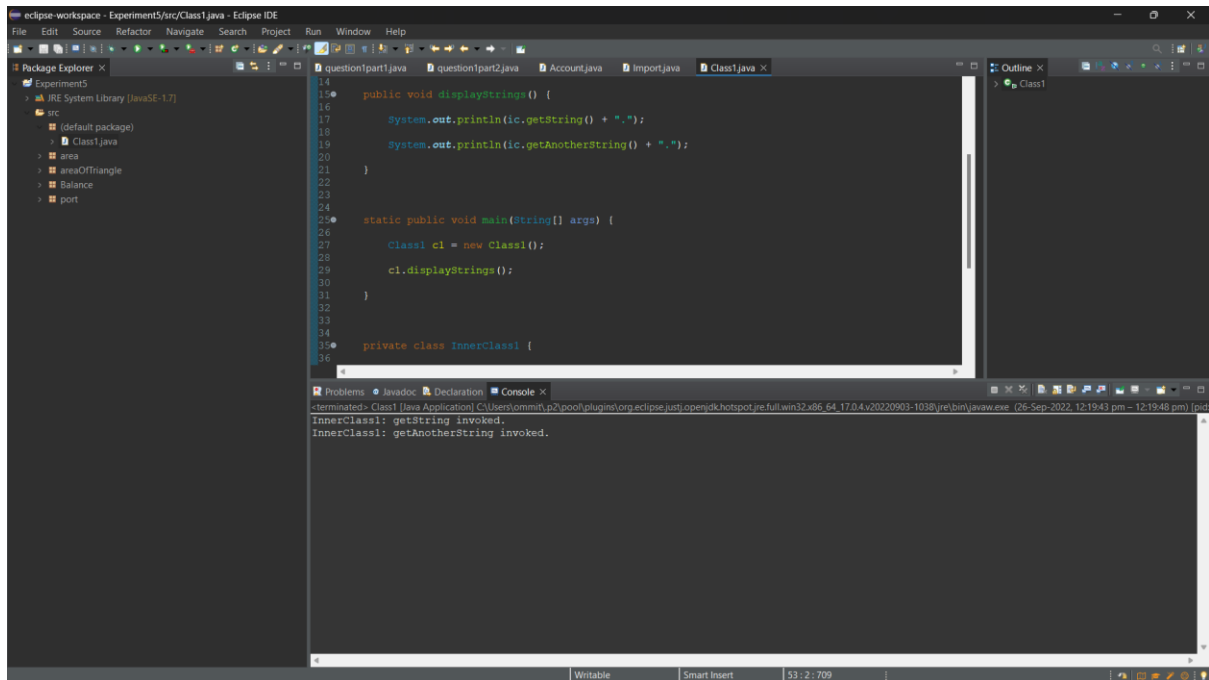
```
package Balance;

public class Account {
    public void displayBalance() {
        System.out.println("Display_Balance method executed");
    }
    public static void main(String[] args) {
        System.out.println("#Om Mittal");
        System.out.println("#500096091");
    }
}

package port;
import Balance.*;
public class Import {

    public static void main(String[] args) {
        Account a = new Account();
        a.displayBalance();
        System.out.println("#Om Mittal");
        System.out.println("#500096091");
    }
}
```

ANSWER 3)



The screenshot shows the Eclipse IDE interface. The Package Explorer on the left lists a project named 'Experiment5' with a package 'ic' containing files 'Class1.java', 'area', 'areaOfTriangle', 'Balance', and 'port'. The main editor displays the code for 'Class1.java'. The code defines a public class 'Class1' with a method 'displayStrings()' and a static 'main' method. Inside the 'main' method, an instance of 'Class1' is created and its 'displayStrings()' method is called. A private inner class 'InnerClass1' is also defined. The console at the bottom shows the output of the program, indicating that the 'getString()' and 'getAnotherString()' methods of 'InnerClass1' were invoked.

```
14 public void displayStrings() {
15     System.out.println(ic.getString() + ".");
16     System.out.println(ic.getAnotherString() + ".");
17 }
18
19 static public void main(String[] args) {
20     Class1 c1 = new Class1();
21     c1.displayStrings();
22 }
23
24 private class InnerClass1 {
25
26
27
28
29
30
31
32
33
34
35
36 }
```

Console Output:

```
<terminated> Class1 [Java Application] C:\Users\ommit\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.4.v20220903-1038\jre\bin\javaw.exe (26-Sep-2022, 12:19:43 pm) [pid
InnerClass1: getString invoked.
InnerClass1: getAnotherString invoked.
```

Following code is for inner class, here Class1 is inner class and Innerlclass1 is inner class. Generally we can't make class private but if class is inner class then it can be private. In given code also our inner class is private but still we are using methods of inner class.