

Experiment No. 8 (a)

Aim

Demonstrate the Concept of Multilevel Inheritance in Java.

Source code

```
package java_file;

class Calculation {

    void add(float x, float y) {

        System.out.println("\nThe Addition of "+x+" and "+y+" is "+(x+y));

    }

    void sub(float x, float y) {

        System.out.println("\nThe Subtraction of "+x+" and "+y+" is "+(x-y));

    }

}

class NewCalculation1 extends Calculation{

    void mul(float x, float y) {

        System.out.println("\nThe Multiplication of "+x+" and "+y+" is "+(x*y));

    }

    void div(float x, float y) {

        System.out.println("\nThe Division of "+x+" and "+y+" is "+(x/y));

    }

}
```

```

class NewCalculation2 extends NewCalculation1 {

    void mod(float x, float y) {

        System.out.println("\nThe Moduls of "+x+" and "+y+" is "+(x+y));

    }

}

public class _8a_Multilevel_Inheritance {

    public static void main(String[] args) {

        NewCalculation2 obj=new NewCalculation2();

        obj.add(12, 8);

        obj.sub(45, 13);

        obj.mul(13, 67);

        obj.div(77, 7);

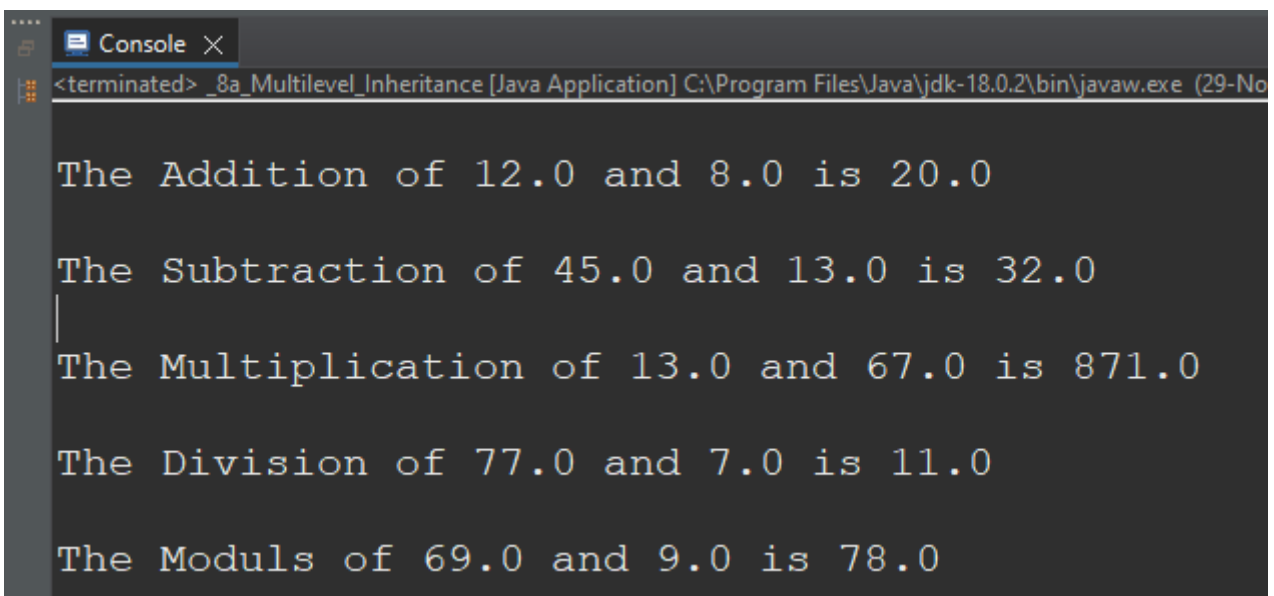
        obj.mod(69, 9);

    }

}

```

Output



```

<terminated> _8a_Multilevel_Inheritance [Java Application] C:\Program Files\Java\jdk-18.0.2\bin\javaw.exe (29-No

The Addition of 12.0 and 8.0 is 20.0

The Subtraction of 45.0 and 13.0 is 32.0
|
The Multiplication of 13.0 and 67.0 is 871.0

The Division of 77.0 and 7.0 is 11.0

The Moduls of 69.0 and 9.0 is 78.0

```