Day 69 coding Statement : Suppose, we have a class A which is the base class and we have a class B which is derived from class A and we have a class C which is derived from class B, we can access the functions of both class A and class B by creating an object for class C.

Hence, this mechanism is called multi-level inheritance. (B inherits A and C inherits B.)

Create a class called Equilateral which inherits from Isosceles and should have a function such that the output is as given below.

Sample Output

I am an equilateral triangle

I am an isosceles triangle

I am a triangle

Program :

```java
package com.talentbattle.codingchallenge;

class Isosceles{
      void display1()
      {
            System.out.println("I am Isosceles triangle");
      }
}

class Equilateral extends Isosceles{
      void display2() {
            System.out.println("I am equilateral triangle");
      }
}

class C extends Equilateral{
      void display3() {
            System.out.println("I am Triangle");
      }
}

public class Inheritance {
      public static void main(String[] args)
      {
            C c = new C();
            c.display2();
            c.display1();
            c.display3();
      }
```

```
}
```

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Sudeep ▸ src ▸ com.talentbattle.codingchallenge ▸ C ▸ display3() : void

```java
1  package com.talentbattle.codingchallenge;
2
3  class Isosceles{
4      void display1()
5      {
6          System.out.println("I am Isosceles triangle");
7      }
8  }
9
10 class Equilateral extends Isosceles{
11     void display2() {
12         System.out.println("I am equilateral triangle");
13     }
14 }
15
16 class C extends Equilateral{
17     void display3() {
18         System.out.println("I am Triangle");
19     }
20 }
21
22 public class Inheritance {
23     public static void main(String[] args)
24     {
25         C c = new C();
26         c.display2();
27         c.display1();
28         c.display3();
29     }
30 }
31
```

Console

```
<terminated> Inheritance [Java Application] C:\Program
I am equilateral triangle
I am Isosceles triangle
I am Triangle
```

Project Explorer

```
Sudeep
  JRE System Library [jdk-19]
  src
    (default package)
    com.kodnest.programs
    com.leetcode.programs
    com.talentbattle.codingcha
```

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