

STATIC

Rules for “static” methods

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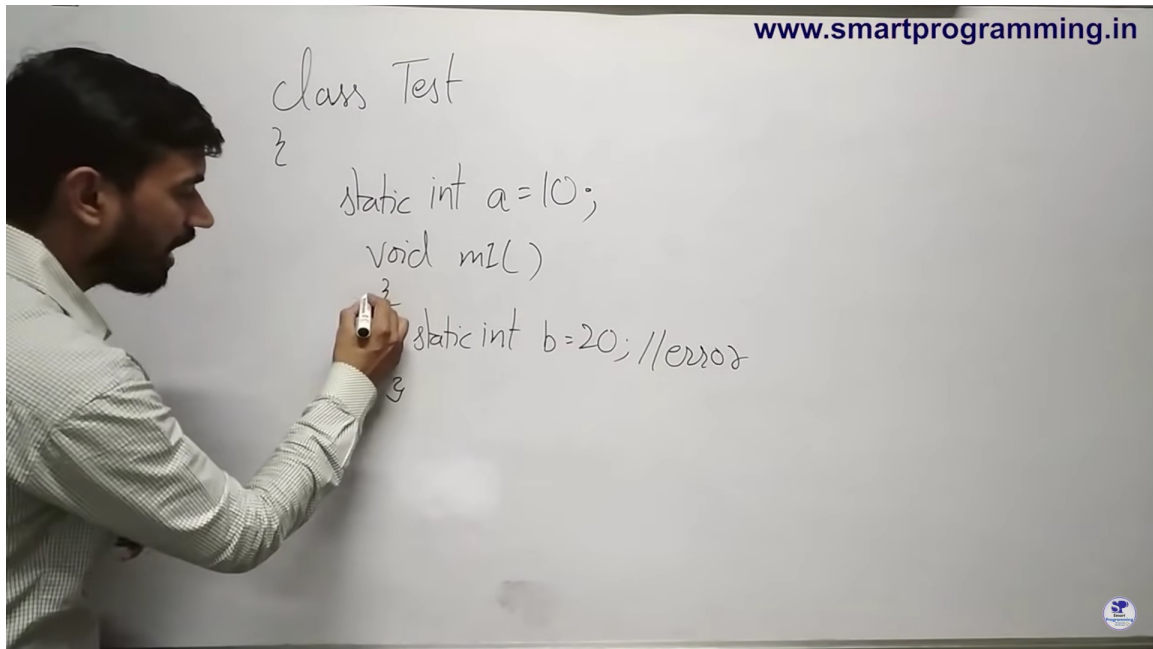
1. “static” methods belongs to the class, not to the object.
2. A “static” method can be accessed directly by class name and doesn't need any object.
3. A “static” method can access only static data. It cannot access non-static data (instance data).
4. A “static” method can call only other static methods and cannot call a non-static method.
5. A “static” method cannot refer to “this” or “super” keyword in anyway.



Static variable are used for Memory managment

Only class level instance variable will be static

local variable can't be static.



Static variable belong to class not object ,so we can access it using class.

No need of making Object.

```
class Test  
{  
    static int a=10;  
}  
class Demo  
{  
    public static void main(String[] args)  
    {  
        System.out.println(Test.a);  
    }  
}
```

Static method belong to class ,not to object

we can directly class using class name.

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```
class Test
{
    static void show()
    {
        sop("2");
    }
    void display()
    {
        sop("1");
    }
}

Test t=new Test();
t.display();
Test.show();
```

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Without Class name but within the class.

```
class Test
{
    static void display()
    {
        System.out.println("1");
    }
    public static void main(String[] args)
    {
        display();
    }
}
```

```
class Test
{
    static void display()
    {
        System.out.println("1");
    }
    public static void main(String[] args)
    {
        Test.display();
    }
}
```

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```
3      static void display()
4      {
5          System.out.println("1");
6      }
7      public static void main(String[] args)
8      {
9          display();
10         Xyz.show();
11     }
12 }
13 class Xyz
14 {
15     static void show()
16     {
17         System.out.println("2");
18     }
19 }
```

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```
1 class StaticDemo
2 {
3     static int i=10;
4     static void display()
5     {
6         System.out.println(i);
7     }
8 }
```

A static method can access only static data.
It cannot access non-static data i.e. instance data

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```
1 class StaticDemo
2 {
3     static void display()
4     {
5         show();
6         System.out.println("1");
7     }
8     static void show()
9     {
10        System.out.println("2");
11    }
12 }
```

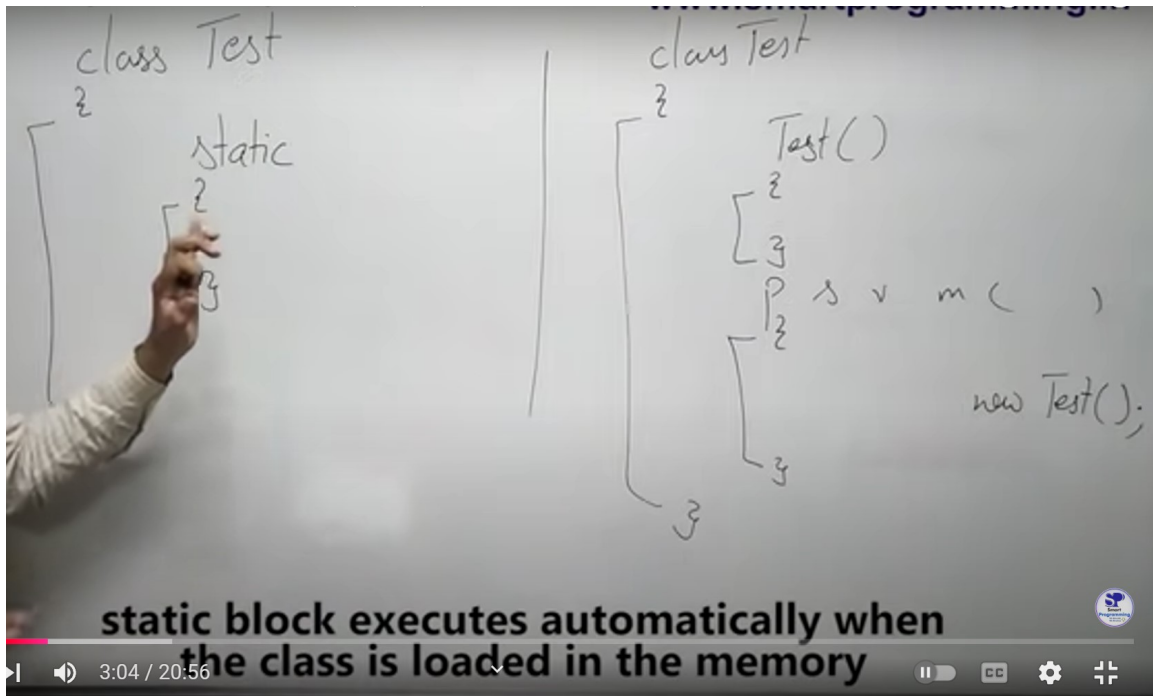
A static methods can call only other static methods and cannot call
a non-static method.

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```
1 class StaticDemo
2 {
3     int i=10;
4     static void display()
5     {
6         System.out.println(this.i);
7     }
8 }
```

A static method cannot refer to "this" or "super" keyword in anyway

Static Block



Without main method we can execute static block method (1.6 v)

We can also create multiple static block in same class.

We use **static method** for which , if we want some method which **can execute at class loading** ,ex-native method


```
class Test
{
    static
    {
        System.out.println("Hello");
    }
}
```