Smart Programming : YouTube Channel

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Static variables and static blocks in Java

=> static keyword :-

-> static keyword is non-access modifier

Access-modifier	Non-Access Modifier
public protected private default or no-modifier	- abstract - final - static - strictfp - synchronized - transient - volatile

-> static keyword can be used with

1. variables
2. block
3. methods
4. nested class or inner class (not outer class)

-> use of static keyword :-

1. It is used to improve share-ability
2. It is used for memory management

-> static members belong to the class, not objects

=> static variables :-

-> If we declare any variable as static, it is known as static variable

-> Static variables gets memory allocated in method area at the time of class loading

-> Example :

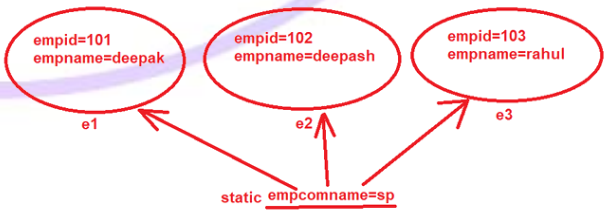
```
class Employee
{
	int empid;
	String empname;
	String empcomname;

	Employee(int empid, String empname, String empcomname)
	{
		this.empid=empid;
		this.empname=empname;
		this.empcomname=empcomname;
	}

	void display()
	{
		System.out.println("---------Employee Details----------");
		System.out.println("Employee ID : "+empid);
		System.out.println("Employee Name : "+empname);
		System.out.println("Employee Company Name : "+empcomname);
		System.out.println();
	}
}
```

```
class StaticDemo1
{
	public static void main(String[] args)
	{
		Employee e1=new Employee(101, "Deepak", "Smart Programming");
		Employee e2=new Employee(102, "Deepesh", "Smart Programming");
		Employee e3=new Employee(103, "Rahul", "Smart Programming");

		e1.display();
		e2.display();
		e3.display();
	}
}
```



-> Points to remember :-

1. We cannot create static local variable because main use of static variable is improve share-ability but local variables have limited share-ability thus it voilates the rule of static keyword

2. If we declare any variable in static method, then it will be treated as local variable only

3. We cannot use instance variable inside static method but we can use static variable inside instance method

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=> static block :-

-> A block created using static keyword is known as static block

-> Static block is executed at the time of class loading

-> Use of static block :-

1. We can create static block to initialize static variables

2. We can create static block to load native libraries at class loading time

-> Syntax :

```
static
{


}
```

-> static blockes will be executed from top to bottom

Interview Question :

1. Can we print hello without using main method

   Yes but before JDK 7 version

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