



SNS COLLEGE OF ENGINEERING



Kurumbapalayam(Po), Coimbatore - 641 107

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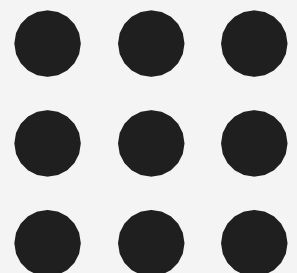
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Department of Information Technology

19CS204 OBJECT ORIENTED PROGRAMMING

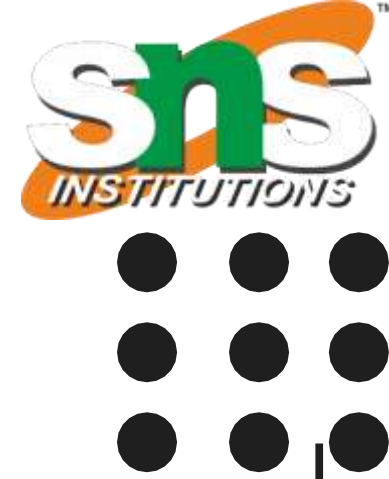
I YEAR /II SEMESTER

Topic – final keyword





final



The final keyword in java is used to restrict the access.

The java final keyword can be used in many context.

Final can be:

- Variable (Stop changing values)
- Method (Stop Overriding)
- Class (Stop Inheritance)



final



Variable

- If a variable is declared with the final keyword, its value cannot be changed once initialized.
- If it's declared but not yet initialized, it's called a blank final variable

Example

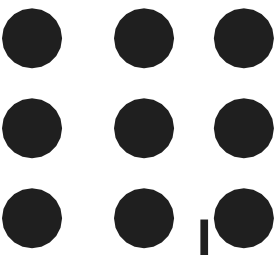
```
final int=10;
```

```
class FinalVariable {  
public static void main(String[] args)  
{  
final int x = 10;  
x++;  
System.out.println(x);  
}  
}
```



final

```
class example
{
final double pi=3.14;
Example(double pi)
{
this.pi=pi;
}
}
class example1 {
public static void main(String []args)
{
example ex=new example(5);
}}
```





final



Final methods

A method, declared with the final keyword, cannot be overridden or hidden by subclasses

Example

```
class A {  
    final void finalmethod() {  
        System.out.println("Cant be overridden");  
    }  
}  
  
class B extends A {  
    void finalmethod() {  
        System.out.println("This is Derived");  
    }  
  
    public static void main(String[] args) {  
        A a=new A();  
        a.finalmethod();  
        B b= new B();  
        b.finalmethod();  
    }  
}
```



final

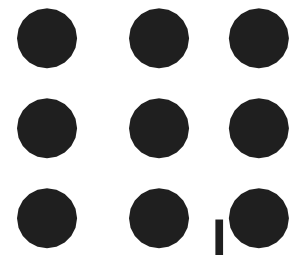


Final Class

A class declared as a final, cannot be extended or Inherited by another class.

Example

```
final class A {  
    void finalmethod() {  
        System.out.println("This is Final Class Cannot Inherited");  
    }  
}  
  
class B extends A {  
    void finalmethod() {  
        System.out.println("This is Derived");  
    }  
  
    public static void main(String[] args) {  
        A a=new A();  
        a.finalmethod();  
        B b= new B();  
        b.finalmethod();  
    }  
}
```



THANK YOU