SNS COLLEGE OF ENGINEERING

Kurumbapalayam(Po), Coimbatore – 641 107
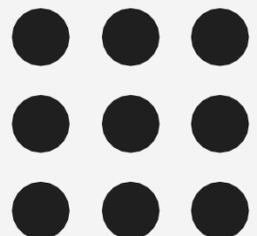**Accredited by NAAC-UGC with 'A' Grade**
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Department of Information Technology

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 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