SNS COLLEGE OF ENGINEERING

Kurumbapalayam(Po), Coimbatore – 641 107
Accredited by NAAC-UGC with 'A' Grade
Approved by AICTE, Recognized by UGC & Affiliated to Anna University, Chennai

Department of Information Technology

19CS204 OBJECT ORIENTED PROGRAMMING

I YEAR /II SEMESTER

Topic – Nested Interface

Nested Interface

- An interface which is declared inside another interface or class is called nested interface.
- They are also known as inner interface.
- Since nested interface cannot be accessed directly, the main purpose of using them is to resolve the namespace by grouping related interfaces (or related interface and class) together.
- This way, we can only call the nested interface by using outer class or outer interface name followed by dot(.), followed by the interface name

Nested Interface

- Nested interfaces are static by default. You don’t have to mark them static explicitly as it would be redundant.
- Nested interfaces declared inside class can take any access modifier,
- Nested interface declared inside interface is public implicitly

Nested Interface

Nested interface declared inside another interface

```
interface InterfaceA{
    void display();
    interface InterfaceB{
        void myMethod();
    }
}

public class NestedInterfaceDemo1 implements InterfaceA.InterfaceB{
     public void myMethod(){
        System.out.println("Nested interface method");
     }

     public static void main(String args[]){
          InterfaceA.InterfaceB obj= new NestedInterfaceDemo1();
      obj.myMethod();
     }
}
```

Nested Interface

Nested interface declared inside a class

```
class MyClass{
    interface InterfaceB{
        void myMethod();
    }
}

public class NestedInterfaceDemo2 implements MyClass.InterfaceB{
     public void myMethod(){
         System.out.println("Nested interface method");
     }

     public static void main(String args[]){
        MyClass.InterfaceB obj= new NestedInterfaceDemo2();
        obj.myMethod();
     }
}
```

THANK YOU