

**AIM:**

To implement the various types of inheritance concepts supported by Java in a program of your choice and justify the usage. Especially concepts like interfaces and method overriding is illustrated.

**PSUEDOCODE:**

Class ClassA

begin

    public dispA function()

        display “disp() method of ClassA”

end

interface InterfaceB

begin

    public show function ()

end

interface InterfaceC

begin

    public show function ()

end

public class EX2 extends classA implements classB, classC

begin

    public show function ()

display "show() method implementation"

public dispD function ()

display "disp() method of EX2"

public static main (string argument)

begin

display "Inheritance with method overriding and interface"

EX2 d object = new EX2()

d object function dispA call

d object function dispD call

d object function show call

end

end

### Program:

```
class ClassA
{
    public void dispA()
    {
        System.out.println("disp() method of ClassA");
    }
}
interface InterfaceB
{
    public void show();
}
interface InterfaceC
{
    public void show();
}
```

```

}
public class EX2 extends ClassA implements
InterfaceB,InterfaceC{
    public void show()
    {
        System.out.println("show() method implementation");
    }
    public void dispD()
    {
        System.out.println("disp() method of EX2");
    }

    public static void main(String[] args) {
        System.out.println("Inheritance with Method
overriding and Interface");
        EX2 d = new EX2();
        d.dispA();
        d.dispD();
        d.show();
    }
}

```

#### OUTPUT:

```

Inheritance with Method overriding and Interface
disp() method of ClassA
disp() method of EX2
show() method implementation

```

#### RESULT:

The program successfully implements various types of inheritance, interfaces and method overriding.