

Generalization

Extracting all the important common properties from sub class & declaring it in super class(ie. super interface) & providing implementation/definition according to subclass specification is called Generalization.

generalization file can be normal java class or abstract class or Interface, but only Interface is recommended.

```
package Generalization;
//super interface
public interface SimCard
{
    void msg();

    void audioCalling();

    void Data();
}
```

```
package Generalization;
//IC1
public class Jio implements SimCard
{
    public void msg()
    {
        System.out.println("sms: 10");
    }

    public void audioCalling()
    {
        System.out.println("audio Calling: 100 calls");
    }

    public void Data()
    {
        System.out.println("Data: 1GB");
    }

    public void JioCinema()
    {
        System.out.println("Jio Cinema");
    }
}
```

```
package Generalization;
//IC2
public class VI implements SimCard
{
    public void msg()
    {
        System.out.println("sms: 20");
    }

    public void audioCalling()
    {
        System.out.println("audio Calling: 200 calls");
    }

    public void Data()
    {
        System.out.println("Data: 2GB");
    }
}
```

```

    }

    public void hotstar()
    {
        System.out.println("hotstar");
    }
}

```

```

package Generalization;
//IC3
public class Airtel implements SimCard
{
    public void msg()
    {
        System.out.println("sms: 30");
    }

    public void audioCalling()
    {
        System.out.println("audio Calling: 300 calls");
    }

    public void Data()
    {
        System.out.println("Data: 3GB");
    }
}

```

```

package Generalization;
public class TestGeneralization
{
    public static void main(String[] args)
    {
        System.out.println("-----Features of Jio Simcard-----");
        Jio j=new Jio();
        j.msg();
        j.audioCalling();
        j.Data();
        j.JioCinema();

        System.out.println("-----Features of VI Simcard-----");
        VI v=new VI();
        v.msg();
        v.audioCalling();
        v.Data();
        v.hotstar();

        System.out.println("-----Features of Airtel Simcard-----");
        Airtel a=new Airtel();
        a.msg();
        a.audioCalling();
        a.Data();
    }
}

```

