

1)Dynamic

```
class abc
```

```
{
```

```
void show()
```

```
{
```

```
    System.out.println("inside the class abc");
```

```
}
```

```
}
```

```
class bcd extends abc
```

```
{
```

```
void show()
```

```
{
```

```
    System.out.println("inside the class bcd");
```

```
}
```

```
}
```

```
class cde extends bcd
```

```
{
```

```
void show()
```

```
{
```

```
    System.out.println("inside the class cde");
```

```
}
```

```
}
```

```
class dynamic
```

```

{

public static void main (String args[])

{

    abc a=new abc();

    bcd b=new bcd();

    cde c=new cde();

    abc ref;

    ref=a;

    ref.show();

    ref=b;

    ref.show();

    ref=c;

    ref.show();

}

}

```

2)star

```

import java.applet.*;
import java.awt.*;
public class star extends Applet
{
    public void paint(Graphics g)
    {
        g.drawLine(350,50,300,300);
        g.drawLine(350,50,500,300);
        g.drawLine(500,300,200,100);
        g.drawLine(200,100,500,100);
        g.drawLine(500,100,300,300);
    }
}
/*<applet code="star.class" height=1200 width=1200></applet>*/

```

3)Multiple inheritance using interface

```

import java.io.*;
interface sports

```

```

{
    double spwtwt=6.0f;
    void put();
}

class student
{
    int rno;
    void show1(int x)
    {
        rno=x;
        System.out.println("rollno="+rno);
    }
}

class Test extends student
{
    int m1,m2;
    String st=new String("operating system");
    String st1=new String("computer network");
    void show2(int p,int q)
    {
        m1=p;
        m2=q;
        System.out.println("sub1="+st);
        System.out.println("mark1="+m1);
        System.out.println("sub2="+st1);
        System.out.println("mark2="+m2);
    }
}

class result extends Test implements sports
{
    public void put()
    {
        System.out.println("sports weightage mark="+spwtwt);
    }
    void total()
    {
        double tol=m1+m2+spwtwt;
        System.out.println("total mark"+tol);
    }
}

class interfacetest
{
    public static void main(String args[])
    {
        result r=new result();
        r.show1(101);
        r.show2(98,95);
        r.put();
        r.total();
    }
}

```