```
1) abstract class shape {
        protected int length;
        protected int width;
        public shape (int length, int width)
        {
                this.length = length;
                this.width = width;
        }
        abstract void printArea();
}

class Rectangle extends shape {
        public Rectangle (int length, int width)
        {
                super(length, width);
        }
        @override
        void printArea() {
                int area = length * width;
                SOPln ("Area of Rectangle =" + area);
        }
}

class triangle extends shape {
        public triangle (int base, int height) {
                super(base, height);
        }
        @override
        void printArea() {
                double area = 0.5 * length * width;
                SOPln ("Area of Triangle :" + area);
        }
}
```

```java
Class circle extends shape {
    public circle (int radius) {
        super (radius, 0);
    }
    @override
    void print Area () {
        double area = Math.PI * length * length;
        sof ln (" Area of Circle :" + area);
    }
}

Public class Main {
    Public static void main (String[] args) {
        Rectangle rectange = new Rectangle (5, 8)
        Triangle triangle = new Triangle (2, 5)
        Circle circle = new Circle (4)
        rectangle . printArea ();
        triangle . printArea ();
        circle . print Area ();
    }
}
```

O/P

Area of Rectangle : 40
Area of triangle : 5
Area of circle : 50.26548