

```
import java.util.Scanner;
```

```
abstract class Shape {  
    int a, b;  
    abstract void printArea();  
}
```

```
class Rectangle extends Shape {  
    Rectangle (int len, int bre) {  
        this.a = len;  
        this.b = bre;  
    }
```

```
    void printArea() {  
        double area = a * b;  
        SOP ("Area of Rect : " + area);  
    }  
}
```

```
class Triangle extends Shape {  
    Triangle (int base, int height) {  
        this.a = base;  
        this.b = height;  
    }
```

```
    void printArea() {  
        double area = 0.5 * a * b;  
        SOP ("Area of Triangle : " + area);  
    }  
}
```



```

class Circle extends Shape
{
    Circle(int radius)
    {
        this.a = radius;
    }

    void printArea()
    {
        double area = a*a;
        SOP("Circle area: "+area);
    }
}

```

```

class run
{
    PSVM ()
    {
SOP
        Shape rect = new Rectangle(5,10);
        Shape tri = new Triangle(4, 24);
        Shape circle = new Circle(7);

        rect.printArea();
        tri.printArea();
        circle.printArea();
    }
}

```

~~AAA~~
23-10-24

O/P:

```

Rectangle area: 50.0
Triangle area: 42.0
Circle area: 49.001

```