```
abstract class shape {
    double x;
    double y;
    shape (double x, double y) {
        this .x= x;
        this .y = y;
    }
    abstract double printarea ();
}


class circle extends shape {
    circle (double x, double y) {
        super (x,y);
    }

    double printArea () {
        System. out. println ( "Area of circle : " );
        return (3.14 * x*x);
    }
}


class traingle extends shape {
    triangle (double x, double y ) {
        super (x,y);
    }
    double printArea () {
        system. out. println ("Area of triangle : " );
        return (x *y)/2;
    }
}
```

```java
class rectangle extends shape {
    rectange (double x, double y) {
        super (x,y)
    }
    double printArea () {
        system.out.println ("Area of rectangle: ");
        return (3.14 * x * x );
    }
}

class shape demo {
public static void main (String args [ ]) {
    circle c = new circle (10,16);
    rectangle r = new rectangle ( 10,20 );
    triangle t = new triangle (12,14);
    shap s;
    s = c;
    system.out.println ("Area = " &.printArea ());
    s = r;
    system.out.println ("Area= " + t.printArea ());
    s = t;
    System.out.println (" Area = "+ t.printArea());
    }
}
```