CODE:

```
abstract class shape{
    double x;
    double y;
    shape(double x, double y){
        this.x=x;
        this.y=y;
    }
abstract double printArea();
}
class triangle extends shape{
triangle(double x, double y){
        super(x,y);
    }
    double printArea(){
        System.out.println("Are of Trianglr is:");
        return (x*y)/2;
    }
}
class rectangle extends shape{
    rectangle(double x, double y){
        super(x, y);
    }
    double printArea(){
        System.out.println("Area of Rectangle:");
        return (x*y);
    }
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 shapedemo{
```

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

Ouput: