```
import java.util.*;
import java.io.*;

abstract class Shape
{
  double x,y;
  Shape(double a, double b)
  {
    x=a;
    y=b;
  }
  abstract void printArea();
}

class Rectangle extends Shape
{
  Rectangle(double a, double b)
  {
    super(a,b);
  }
  void printArea()
  {
    System.out.println("Area is :"+(x*y));
  }
}
class Triangle extends Shape
{
  Triangle(double a, double b)
  {
    super(a,b);
  }
  void printArea()
  {
    System.out.println("Area is: "+(0.5*x*y));
  }
}
```

```
class Circle extends Shape
{
    Circle(double a, double b)
    {
        super(a,b);
    }
    void printArea()
    {
        System.out.println("Area is :"+(3.14*x*y));
    }
}

class Abstract_test
{
    public static void main(String args[])
    {
        Rectangle r1=new Rectangle(10,20);
        Triangle t1=new Triangle(2,2);
        Circle c1=new Circle(3,3);

        r1.printArea();
        t1.printArea();
        c1.printArea();
    }
}
```