class Shape{

public double area(){return 0;};

}

class Rectangle extends Shape{

protected double length;

protected double width;

Rectangle(){System.out.println("Inside Rectangle");}

Rectangle(double length, double width){

this.length=length;

this.width=width;

}

public double area(){return (length\*width);}

}

class Circle extends Shape{

protected double radius;

Circle(){System.out.println("Inside Circle");}

Circle(double radius){this.radius=radius;}

public double area(){return 3.1416\*(radius\*radius);}

}

class Triangle extends Shape{

protected double base;

protected double hight;

Triangle(){System.out.println("Inside Trinagle");}

Triangle(double base, double hight){

this.base=base;

this.hight=hight;

}

public double area(){return 0.5\*(base\*hight);}

}

public class Start{

public static void main(String[]args){

Shape array[] = new Shape[3];

array[0]= new Rectangle(4.5,2.5);

array[1]= new Circle(2.5);

array[2]= new Triangle(3.5,2.5);

System.out.println("Area of Rectangle is = "+array[0].area());

System.out.println("Area of Circle is = "+array[1].area());

System.out.println("Area of Triangle is = "+array[2].area());

}

}