```java
import java.util.scanner.

abstract class shape
{
    int a, b;
    abstract void printarea();
    abstract void input();
    Scanner s = new Scanner (system in)
}

class rectangle extends shape
{

    void input()
    {
        System.out.println ("Enter l and b")
        a = s.nextInt();
        b = s.next Int();
    }

    void printarea ()
    {

        System.out.println ("Area of rectangle
                    is: " + (a*b) + " sq units")
    }
}
```

```
class Triangle extends shape
{
    void input()
    {
        system.out.println ("Enter b and h");
        a = s.next Int();
        b = s.next Int();
    }
    void print area()
    {
        system.out.println ("Area of Triangle is "
        + ((a*b)/2 ) + "sq units");
    }
}


class circle extends shape
{

    void input()
    {
        println ("enter the radius of circle");
        a = s.next Int();
    }
    void print area()
    {
        system.out.println ("Area of circle is"
        + (13.14)*a*a) + "sq units");

    }
}
```

```
class area
{
    public static void main ( string args[] )
    {
        rectangle r = new rectangle();
        r. input();
        r. printarea();

        triangle t = new triangle();
        t. input();
        t. print area();

        circle c = new circle();
        c. input();
        c. print area();
    }
}
```

output
Enter l and b
   4
   5
The area of triangle is : 20 sq units.

Enter b and h
   4 5
The area of triangle is : 10 sq units

Enter the radius
   2
The area of circle is : 12.56 sq units.