Lab-4

```
import java.util.Scanner;
class input Scanner
{
    protected Scanner scanner;
    public input Scanner()
    {
        Scanner = new Scanner (System.in);
    }
}
abstract class shape extends input scanner
{
    double a,b;
    public shape()
    {
        super();
        System.out.println("the area of a:");
        a = scanner.nextDouble();
        System.out.println("the area of b:");
        b=scanner.nextDouble();
    }
}
class rectangle extends shape
{
    [illegible]
    void area()
    {
        double area = a*b;
        System.out.println("the area of rectangle is:" + area);
    }
}
```

```
class triangle extends shape
{
    [illegible]
    void area()
    {
     double area = 0.5*a*b;
     System.out.println("the area of triangle is: "+area);
    }
}
class circle extends shape
{
    void area()
    {
     double area = 3.14*a*a;
     System.out.println("the area of rectangle is: "+area);
    }
}
public class mainArea
{
    public static void main(String[] args)
    {
     rectangle r = new rectangle();
     triangle t = new triangle();
     circle c = new circle();
     r.area();
     t.area();
     c.area();
    }
}
```

output :

the area of a :

2

the area of b :

3

the area of a :

4

the area of b :

5

the area of a :

6

the area of b :

7

the area of rectangle is : 6.0

the area of triangle is : 10.0

the area of circle is : 113.039

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