Week 8 lab 4 :-

```
import java.util.*;
abstract class Shape
{
double a,b;
abstract void printArea();
}
class Triangle extends Shape
{
Triangle (Double x, Double y)
{
a=x;
a=y;
}
void printArea();
{
Double area;
area=0.5*a*b);
System.out.println(" Area of triangle : "+ area);
}
{
class Circle extends Shape.
{
Circle ( Double r)
{
a = r;
}
void printArea()
{
Double area;
area = 3.14 * a * a;
System.out.println (" Area of Circle: " + area);
}
}
```

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```
class Rectangle extends Shape
{
Rectangle (Double x, Double y)
{
a = x;
b = y;
}
void printArea()
{
double area;
area = a * b;
System.out.println("Area of Rectangle" + area);
}
}
class ShapeMain
{
public static void main (String args[])
{       double l, h, b, br, rl;
System.Scanner sc = new Scanner (System.in);
System.out.println("Enter base & height of triangle");
b = sc.nextDouble();
h = sc.nextDouble();
Triangle t = new Triangle (b, h)
t.printArea();
System.out.println("Enter length & breadth of
                    rectangle");
l = sc.nextDouble();
br = sc.nextDouble();
Rectangle r = new Rectangle (l, br);
r.printArea();
System.out.println("Enter radius of Circle");
rl = sc.nextDouble();
Circle c = new Circle (rl);
c.printArea();
}
```