lab program 4

```
import java.util.Scanner;
abstract class Shape
{
int length, breadth;
void printArea()
{}
class Rectangle extends Shape
{
double areaR;
void printArea(){
areaR = (length*breadth);
System.out.println("The area of rectangle
is "+areaR+"cm^2");
}
}
class triangle extends shape
{ double areaT;
void printArea(){
areaT=(0.5)*(length*breadth);
```

```
System.out.println("The area of
triangle is " + areaT + "cm^2");
}
}
class circle extends Shape
{double area c;
void print Area();
area c = (3.14)*(length * length);
System.out.println("The area of circle is
" + area c + "cm^2");
}
class Main
{
Public static void Main (String args[])
{
Scanner A= new Scanner (System.in);
Rectangle R1 = new Rectangle ();
Triangle T1 = new Triangle ();
Circle C1 = new Circle ();
System.out.printfn ("Enter the length
and breadth of which you have to find the
area of rectangle for in cms\n");
R1.length = A.nextInt ();
R2 breadth = A.nextInt ();
```

System.out.println("Enter the length and the breadth of which you have to find the area of triangle in cms\n");

T1.length = A.nextInt();

T1.breadth = A.nextInt();

System.out.println("Enter the ~~length~~ radius of the circle whose area is needed in cms\n");

C1.length = A.nextInt();

R1.printArea();

T1.printArea();

C1.printArea();

}

}