Lab Program-4

```java
# import java.util.*;
class Shape abstract class shape
{
  int a=3;
  int b=4;
  abstract int printArea();
}

  class Rectangle extends Shape
  {
   int printArea()
   {
    System.out.println("Area of rectangle is:");
    return a*b;
   }
  }

  class Triangle extends Shape
  {
   int printArea()
   { System.out.println("Area of triangle is:");
     return (int)(0.5*a*b);
   }
  }
  class Circle extends Shape
  {
   int printArea()
   {
     System.out.println("Area of circle is:");
     return (int)(3.14*a*a);
   }
  }
```

```java
class lab 4
{
    public static void main( String args []")
    {

        Scan
        Rectangle r = new Rectangle ();
        Triangle  t = new Triangle ();
        circle  c = new circle ();

        Shape f;
        system. out. println(* f. print Area ());
        f = t;
        System. out. println ( f. print Area ());
        f = c;
        System. out. println( f. print Area ());

    }
}
```