```
abstract class Shape{
int dim1;
int dim2;
Shape (int a, int b){
dim1 = a;
dim2 = b;
}
abstract double area();
}
class Rectangle extends Shape{
    Rectangle (int a, int b)
    { super(a,b);
    }
    double area(){
      System.out.println("Inside Area for Rectangle.");
      return dim1 * dim2;
      }
    }
class Triangle extends Shape{
Triangle (int a, int b){
  super(a,b);
 }
double area(){
System.out.println("Inside Area for Triangle.");
return dim1 * dim2 / 2;
  }
 }
public class AbstractAreas{
public static void main(String args[]){
  Rectangle r = new Rectangle (9,5);
  Triangle t = new ~~Rectangle~~ Triangle(10,8);
  Shape shapef;
  shapef = r;
  System.out.println("Area is:" + shapef.area());
  shapef = t;
  System.out.println("Area is:" + shapef.area());
  }
}
```