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1.

class Figure{

double dim1,dim2;

Figure(double a,double b){

dim1 = a;

dim2 = b;

}

double area(){

System.out.println("figure class");

return 0;

}

}

class Rectangle extends Figure{

Rectangle(double a,double b){

super(a,b);

}

double area(){

return dim1\*dim2;

}

}

class Triangle extends Figure{

Triangle(double a,double b){

super(a,b);

}

double area(){

return (0.5\*dim1\*dim2);

}

}

public class Main

{

public static void main(String[] args) {

Figure f = new Figure(10,18);

Rectangle r = new Rectangle(10,9);

Triangle t= new Triangle(16,8);

Figure superref;

superref = r;

System.out.println("area is "+ superref.area());

superref = t;

System.out.println("area is "+ superref.area());

superref = f;

System.out.println("area is "+ superref.area());

}

}