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\* Ahmed Aldhaheri

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\* Description: Gets an area of a shape using Shape interface

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**import** java.util.\*;

**public** **class** ShapeDemo {

**public** **static** **void** main(String[] args) {

ArrayList<Shape> arrayShape = **new** ArrayList<Shape>();

//create objects

Circle circle1 = **new** Circle();

Circle circle2 = **new** Circle();

Rectangle rectangle1 = **new** Rectangle();

Rectangle rectangle2 = **new** Rectangle();

//set values

circle1.setRadius(25);

circle2.setRadius(10);

rectangle1.setHeigth(25);

rectangle1.setWidth(10);

rectangle2.setHeigth(40);

rectangle2.setWidth(5);

//add to array

arrayShape.add(circle1);

arrayShape.add(circle2);

arrayShape.add(rectangle1);

arrayShape.add(rectangle2);

//loop to call display area

**for**(Shape arr: arrayShape){

*displayArea*(arr);

}

}//end main

**public** **static** **void** displayArea(Shape s){

System.***out***.println("The area of the shape is: " + String.*format*("%.2f", s.calcArea()));

}

}//end class