	classmate	R
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6	, -9-	

	Devotop a Jone program to create an abstract class
	named shape that contains two latters and an empty
	moted hard added 11:0
=	motod named philama (1: provide there classy named rectangle,
	thangle and attack such that each one of the dayer
	extends the class shape Each to one of the classes
	as contain only the method photomacs that prints my
	are of one gun shap
_ つ	Abstract clay site shape ?
	10t dim 2
	int dm2;
	abstract wid printArea ();
	2
	class Recoungly extends a Shape &
	public Rectangle (But length, Int width)
	break in the math)
	this. dima = length;
	this dim 2 = width)
-6-	wid part Anca ()
	hot and = dm1 + dm2;
-	Exertan at points ("they of rectangle" it are);
	2
	3
	Clays triangle strate Shape ?
	public Triangle (ht boys , At height)
	din 1 = baye; din 2-height)
	2 raight

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	wid potentia () (
	1 1/ and = 0.5 x ding x dim 2
	System out protes ("trea of Triangle: "t area)
	3
	3
	clay chile extent shape (
	public click (Int radius)
	3
	This. dings = radius;
	mig. dbm 2= 0;
	}
	void puttures () {
	double three = Math. P; * dinx x dm2;
	System at place ("threa of chole :"+ area);
	3
	3
_:/ B '	
- 0/	public clay \$ +9+?
	public Static wid main (String 1) args]
	/ 1
1 N	spectant rectangle 1 - new Rectangle (10,5).
	triangle 1 = new triangle (8,6);
72/	creck chill= how (her (7);
	restangly 1. Prothrow ()
	triangle print the ():
	Carcle. print Area (1)
	3
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- Control of the Cont	

Area of rectangly 'So

Area of Triangly '2"

Area of (irch '153.93

```
abstract class Shape {
   int dim1;
    int dim2;
    abstract void printArea();
}
class Rectangle extends Shape {
    public Rectangle(int length, int width) {
        this.dim1 = length;
        this.dim2 = width;
   void printArea() {
        int area = dim1 * dim2;
        System.out.println("Area of Rectangle: " + area);
class Triangle extends Shape {
    public Triangle(int base, int height) {
        this.dim1 = base;
        this.dim2 = height;
   void printArea() {
        double area = 0.5 * dim1 * dim2;
        System.out.println("Area of Triangle: " + area);
class Circle extends Shape {
    public Circle(int radius) {
        this.dim1 = radius;
    void printArea() {
        double area = Math.PI * dim1 * dim1;
        System.out.println("Area of Circle: " + area);
```

```
public class area {
    public static void main(String[] args) {
        Rectangle rectangle = new Rectangle(10, 5);
        Triangle triangle = new Triangle(8, 6);
        Circle circle = new Circle(7);

        rectangle.printArea();
        triangle.printArea();
        circle.printArea();
}
```

C:\Users\shett\OneDrive\Documents\javaclasslab>javac area.java

C:\Users\shett\OneDrive\Documents\javaclasslab>java area

Area of Rectangle: 50 Area of Triangle: 24.0 Area of Circle: 153.93804002589985