

```
abstract class Shape
{
    public abstract double calculateArea();
}

class Circle extends Shape
{
    private double radius;
    public Circle(double radius)
    {
        this.radius=radius;
    }
    @Override
    public double calculateArea()
    {
        return 3.14*radius*radius;
    }
}
class Rectangle extends Shape
{
    private double length,width;
    public Rectangle(double length,double width)
    {
        this.length=length;
        this.width=width;
    }
    @Override
    public double calculateArea()
    {
        return length*width;
    }
}
class Square extends Shape
{
    private double side;
    public Square(double side)
    {
        this.side=side;
    }
    @Override
    public double calculateArea()
    {
        return side*side;
    }
}
```

```
}

public class Inheritance
{
    public static void main(String[]args)
    {
        Shape circle=new Circle(2);
        Shape rectangle=new Rectangle(4,6);
        Shape square=new Square(4);
        System.out.println("Circle Area:"+circle.calculateArea());
        System.out.println("Rectangle Area:"+rectangle.calculateArea());
        System.out.println("Squaer Area:"+square.calculateArea());
    }

}
```

The screenshot shows the Eclipse IDE's Output view. At the top, there are two tabs: 'Run (mavenproject1)' and 'Run (Inheritance)'. The 'Run (Inheritance)' tab is selected and highlighted in blue. Below the tabs, the output console displays the following text:

```
--- exec:3.5.1:exec (default-cli) @ Inheritance ---
Circle Area:12.56
Rectangle Area:24.0
Squaer Area:16.0
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BUILD SUCCESS
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Total time: 0.785 s
```