

Write a Scala program that creates an abstract class Shape with an abstract method area. Implement subclasses Rectangle and Circle that override the area method.

Code

```
HelloWorld.scala

1 * abstract class Shape { def area: Double
2 }
3 class Rectangle(width: Double, height: Double) extends Shape
4 * { override def area: Double = width * height
5 }
6 class Circle(radius: Double) extends Shape
7 * { override def area: Double = math.Pi * radius * radius
8 }
9 object ShapeApp
10 * { def main(args: Array[String]): Unit = {
    val rectangle = new Rectangle(7, 5)
    println(s"Rectangle Area: ${rectangle.area}")
    val circle = new Circle(4.5)

14 println(s"Circle Area: ${circle.area}") }

15 }
```

Output

```
Output:

Rectangle Area: 35.0

Circle Area: 63.61725123519331
```

GitHub Link: https://github.com/arj1-1n/Scala