## Scala programming

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1.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:
abstract class Shape {
  def area: Double
}
class Rectangle(width: Double, height: Double) extends
Shape {
  override def area: Double = width * height
}
```

```
class Circle(radius: Double) extends Shape {
 override def area: Double = math.Pi * radius * radius
object ShapeApp {
 def main(args: Array[String]): Unit = {
  val rectangle = new Rectangle(7, 5)
  println(s"Rectangle Area: ${rectangle.area}")
  val\ circle = new\ Circle(4.5)
  println(s"Circle Area: ${circle.area}"
```

## Output:

