JAIN UNIERSITY

SUBJECT: - SCALA PROGRAMMING

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Q) 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.

```
Ans:-
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}")
}
```

