

Basic Scala Programs

1. Even odd Check

```
object EvenOddCheck {  
  def main(args: Array[String]): Unit = {  
    val number = 15  
    if (number % 2 == 0) {  
      println(s"$number is even")  
    } else {  
      println(s"$number is odd")  
    }  
  }  
}
```

2. Factorial

```
object Factorial {  
  def main(args: Array[String]): Unit = {  
    val num = 5  
    var factorial = 1  
    for (i <- 1 to num) {  
      factorial *= i  
    }  
    println(s"The factorial of $num is $factorial")  
  }  
}
```

3. Reverse the String

```
object ReverseString {  
  def main(args: Array[String]): Unit = {  
    val str = "Scala"  
    val reversed = str.reverse  
    println(s"The reverse of '$str' is '$reversed'")  
  }  
}
```

4. Find the largest element in array

```
object FindLargest {  
  def main(args: Array[String]): Unit = {  
    val numbers = Array(10, 20, 30, 40, 50)  
    val largest = numbers.max  
    println(s"The largest number in the array is $largest")  
  }  
}
```

5.Sum of Two Numbers

```
object SumOfTwoNumbers {  
  def main(args: Array[String]): Unit = {  
    val num1 = 10  
    val num2 = 20  
    val sum = num1 + num2  
    println(s"The sum of $num1 and $num2 is $sum")  
  }  
}
```

6.Add Two Numbers (with User Input)

```
import scala.io.StdIn  
  
object AddTwoNumbers {  
  def main(args: Array[String]): Unit = {  
    println("Enter the first number:")  
    val num1 = StdIn.readInt()  
  
    println("Enter the second number:")  
    val num2 = StdIn.readInt()  
  
    val sum = num1 + num2  
    println(s"The sum of $num1 and $num2 is $sum")  
  }  
}
```

7.Simple Calculator

```
import scala.io.StdIn  
  
object SimpleCalculator {  
  def main(args: Array[String]): Unit = {  
    println("Enter the first number:")  
    val num1 = StdIn.readDouble()  
  
    println("Enter an operator (+, -, *, /):")  
    val operator = StdIn.readChar()  
  
    println("Enter the second number:")  
    val num2 = StdIn.readDouble()  
  
    val result = operator match {  
      case '+' => num1 + num2  
      case '-' => num1 - num2  
      case '*' => num1 * num2  
      case '/' => if (num2 != 0) num1 / num2 else "undefined (division by zero)"  
      case _   => "Invalid operator"  
    }  
  }  
}
```

```
println(s"The result is: $result")
}
```