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")

}

}