

# Assignments

---

## 1. Scala program to find largest number among two numbers.

```
//Scala Program to find largest number among two numbers

object FindLargestNumber {
    def main(args: Array[String]) {
        val number1 = 20
        val number2 = 30

        if(number1 > number2){
            println("Largest number is:" + number1);
        }
        else{
            println("Largest number is:" + number2);
        }
    }
}
```

## 2. Scala program to find a number is positive, negative or zero

```
// Scala program to find a number is positive, negative or positive

object CheckNumber {
    def main(args: Array[String]) {

        // declare a variable
        var number = (-100);

        if(number == 0){                // == checks for equality
            println("number is zero");
        }
        else if(number > 0){
            println("number is positive");
        }
        else{
            println("number is negative");
        }
    }
}
```

### 3. Scala program to create a user define function to return largest number among two numbers using Mutable Variables

```
/* Scala program to create a user define function to
return largest number among two numbers. */

object FindLargestNumber extends App {
  // function definition
  def getLargestNumber(x: Int, y: Int): Int = {
    // declare a mutable variable to hold the largest number
    var largestNumber: Int = 0
    if (x > y) {           // if block is used as a statement
      largestNumber = x
    } else {
      largestNumber = y
    }
    largestNumber
  }

  val a: Int = 10
  val b: Int = 20

  // calling a function
  println("Largest number is: " + getLargestNumber(a,b))
}
```

### 4. Scala program to create a user define function to return largest number among two numbers using Immutable Variable

```
/* Scala program to create a user define function to
return largest number among two numbers. */

object FindLargestNumber extends App {
  // function definition
  def getLargestNumber(x: Int, y: Int): Int = {
    // declare an immutable variable to hold the largest number
    val largestNumber = if (x > y) {      // if block is used as an expression
      x
    } else {
      y
    }
    largestNumber
  }

  val a: Int = 10
```

```
val b: Int = 20

// calling a function
println("Largest number is: " + getLargestNumber(a,b))

}
```