

# Assignment No 12

**Title:** Write a simple program in SCALA using Apache Spark framework.

**Program: -**

1) Hello World Program

```
 HelloWorld.scala Scala Hello World!  
1 object HelloWorld {  
2   def main(args: Array[String]): Unit = {  
3     println("Hello, World!")  
4   }  
5 }
```

**Output: -**

Hello World!

2) Prime Number

```
1 def isPrime2(i :Int) : Boolean = {  
2   if (i <= 1)  
3     false  
4   else if (i == 2)  
5     true  
6   else  
7     !(2 to (i-1)).exists(x => i % x == 0)  
8 }  
9  
10 (1 to 10).foreach(i => if (isPrime2(i)) println("%d is prime.".format(i)))
```

**Output:**

2 is prime.

3 is prime.

5 is prime.

7 is prime.

### 3) Factorial Number

```
1 object GFG
2 {
3   def factorial(n: Int): Int = {
4     var f = 1
5     for(i <- 1 to n)
6     {
7       f = f * i;
8     }
9
10    return f
11  }
12  def main(args: Array[String])
13  {
14    println(factorial(5))
15  }
16
17 }
```

**Output:**

120