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

```scala
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