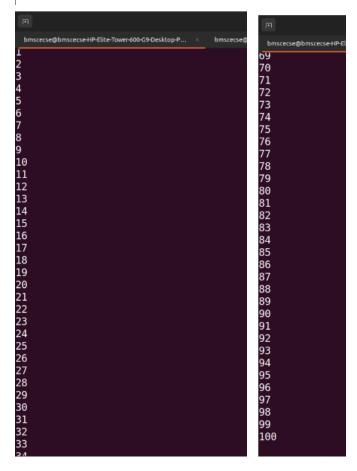
Lab 9: Hadoop, Spark

Code with Output:

Write a Scala program to print numbers from 1 to 100 using for loop

```
object pi {
  def main(args: Array[String]): Unit = {
    for(counter <- 1 to 100)
      print(counter + " ")
    println()
  }
}</pre>
```



Using RDD and FlatMap count how many times each word appears in a file and write out a list of words whose count is strictly greater than 4 using Spark

```
bmscecse@bmscecse-HP-Elit..
                      bmscecse@bmscecse-HP-Elit...
                                            bmscecse@bmscecse-HP-Elit...
                                                                   bmscecse@bmscecse-HP-Elit..
res26: org.apache.spark.rdd.RDD[(String, Int)] = MapPartitionsRDD[28] at map at <console>:26
ccala> .reduceByKey(_ + _)
res27: org.apache.spark.rdd.RDD[(String, Int)] = ShuffledRDD[29] at reduceByKey
at <console>:26
         .filter(_._2 > 4)
 res28: org.apache.spark.rdd.RDD[(String, Int)] = MapPartitionsRDD[30] at filter
at <console>:26
 scala> result.collect().foreach(println)
Spark is fast. Spark is powerful. Spark is amazing. Spark is fast. Spark rocks.
Fast spark processing.
scala> res22: org.apache.spark.rdd.RDD[(String, Int)]
 es30: org.apache.spark.rdd.RDD[(String, Int)] = MapPartitionsRDD[23] at filter
at <console>:26
 scala> res22.collect().foreach(println)
(spark,6)
```

For a given Text file, Create a

Map Reduce program to sort the content in an alphabetic order listing only top 10 maximum occurrences of words. (Hadoop Program)

