

Question 1:

In this we had used spark streaming to collect Twitter data and then performed a MapReduce word count operation on the collected tweets. Finally we displayed it in the android device which is connected with client server programming. Here Client is the Android device and the Server is Spark.



Question 2:

In this we collected the Twitter data of different categories. Then we had provided training data set in which we had provided the categories. Now our prediction analysis will analyze the categories and display to which it belongs to.

```
TwitterSparkStreaming > src > main > scala > TwitterStreaming.scala >
Project: TwitterSparkStreaming [root]
  .idea
  data
  testing
    unknown.txt
  training
    -1456945512000
    -1456945514000
    -1456945516000
    Computer.txt
    Ipad.txt
    Laptop.txt
    Mobile.txt
  project [root-build] (sou
  src
    main

TwitterStreaming.scala x  Utils.scala x  SocketClient.scala x  unknown.txt x  build.sbt x

val sparkConf = new SparkConf().setAppName("TweetsApp").setMaster("local[*]")
//Create a Streaming Context with 2 second window
val ssc = new StreamingContext(sparkConf, Seconds(2))
val sc = ssc.sparkContext

//Loop from here to ENDTRAINING, with different keywords each time
for(keyword <- trainingKeywords) {
  println(" " + keyword)
  val filters = Array(keyword)
  //Using the streaming context, open a twitter stream (By the way you can also use filters)
  //Stream generates a series of random tweets
  val tweets = TwitterUtils.createStream(ssc, None, filters)

  //Get all of the tweet data that matches the filter
  val tweetData = tweets.flatMap(status => status.getText.split(" ")) //filter(_.startsWith("#"))

  //Now to write all of the messages to a training file
  //val tweetFile = "data/training/" + keyword + ".txt"

Run TwitterStreaming
16/03/03 23:14:28 INFO NettyBlockTransferService: Server created on 62636
16/03/03 23:14:28 INFO BlockManagerMaster: Trying to register BlockManager
16/03/03 23:14:28 INFO BlockManagerMasterEndpoint: Registering block manager localhost:62636 with 1127.3 MB RAM, BlockManagerId(driver, localhost)
16/03/03 23:14:28 INFO BlockManagerMaster: Registered BlockManager
Computer
Ipad
Laptop
Mobile
```