Exam for the "Big Data Systems" course

Task: Use the following systems:

- a. Hadoop
 - Implement a data analytics application using the MapReduce programming model (10 points)
 - Resources: http://hadoop.apache.org/
- b. Hadoop Distributed File System (HDFS)
 - Implement a simple application that uses basic HDFS file-system operations (10 points)
 - Resource: http://hadoop.apache.org/
- c. Apache Pig
 - Implement a query using basic database operators (10 points)
 - Resource: https://pig.apache.org/
- d. BigTable/HBase
 - Implement a simple application that uses basic BigTable operations/APIs(10 points)
 - Resource: https://hbase.apache.org/
- e. Spark
 - Implement an application using Spark APIs (10 points)
 - Resource: https://spark.apache.org/
- f. Spark streaming/Apache Flink
 - Implement a streaming application either using Spark streaming or Apache Flink (10 points)
 - Resource: https://spark.apache.org/
 - Resource: https://flink.apache.org/
- g. Zookeeper
 - Implement three distributed co-ordination protocols using Apache Zookeeper APIs (10 points)
 - Resource: https://zookeeper.apache.org/

Submission instructions:

Please upload all the application code in a public GitHub repository. Use separate folders per system to store the application code. Also, include a README.txt (per directory) to describe the implemented application. Github resource: https://github.com/

Please email the web-link of the github repository, with your name and university registration number to the following email address: pramod (dot) bhatotia (at) ed (dot) ac (dot) uk

Deadline: Please send your submission before 20th August, 2017.

Questions: For any questions or queries, please contact the ECI organizers: eci2017@dc.uba.ar