**CS 553 Cloud Computing**

**Programming Assignment 1**

MANUAL

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**Word Count in Java:**

**NormalJavaWCount.java**

**Compiling in Linux OS:**

**Step1**

* Change to directory of source code location.

**Step2:**

* Run $javac NormalJavaWCount.java

**Step3:**

* Run command $java NormalJavaWCount

**Step4:**

* Enter the path of the folder where file is stored which is to be processed when prompted for with the file name.

**Step5:**

* Upon successful execution, check the output.txt file present in the same location as the input file.

**Compiling in Windows OS:**

**Step1:**

* To compile the program open command prompt and navigate to the file location.

**Step2:**

* To compile enter javac NormalJavaWCount.java
* To run enter java NormalJavaWCount

**SortJavaWCount.java**

**Compiling in Linux OS:**

**Step1**

* Change to directory of source code location.

**Step2:**

* Run $javac SortJavaWCount.java

**Step3:**

* Run command $java SortJavaWCount

**Step4:**

* Enter the path of the folder where file is stored which is to be processed when prompted for with the file name.

**Step5:**

* Upon successful execution, check the output.txt file present in the same location as the input file.

**Compiling in Windows OS:**

**Step1:**

* To compile the program open command prompt and navigate to the file location.

**Step2:**

* To compile enter javac SortJavaWCount.java
* To run enter java SortJavaWCount

**Word Count in Hadoop: For Normal Word Count**

**WC.jar**

Hadoop jar wc.jar WordCount /wiki10gb/wordcount-hadoop.txt

**WS.jar: For Sorted Result**

Hadoop jar ws.jar WordCount /wiki10gb/wordcount-hadoop.txt

**Swift:**

To execute a swift file we have to use the following command in the terminal. Note that swift must be installed in all the nodes.

Swift wordCount.swift

Swift wordSort.swift

**MPI:**

To execute the MPI file make sure we have the MPI installed on our system. While using Ubuntu make use of the project report where the detailed method of installing MPI on Ubuntu is given.

To run:

Mpiexec word-count <path of the dataset>