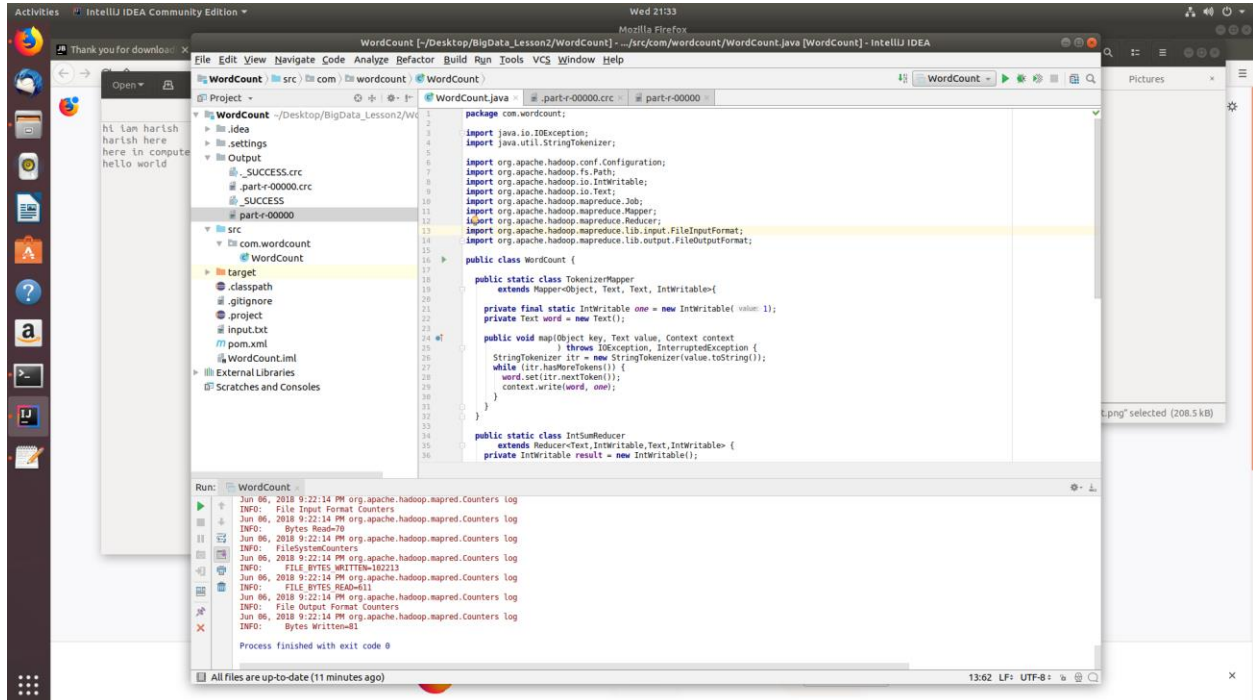


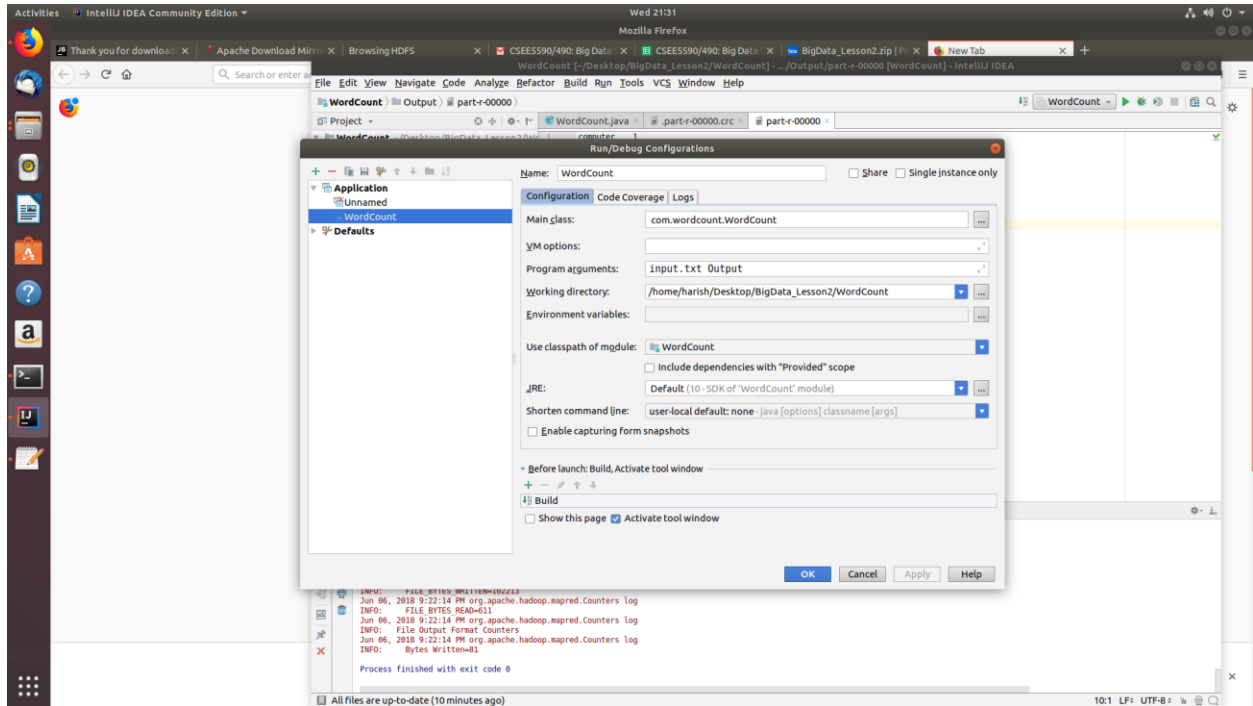
1.Wordcount.java

The below mentioned screenshot is the wordcount program

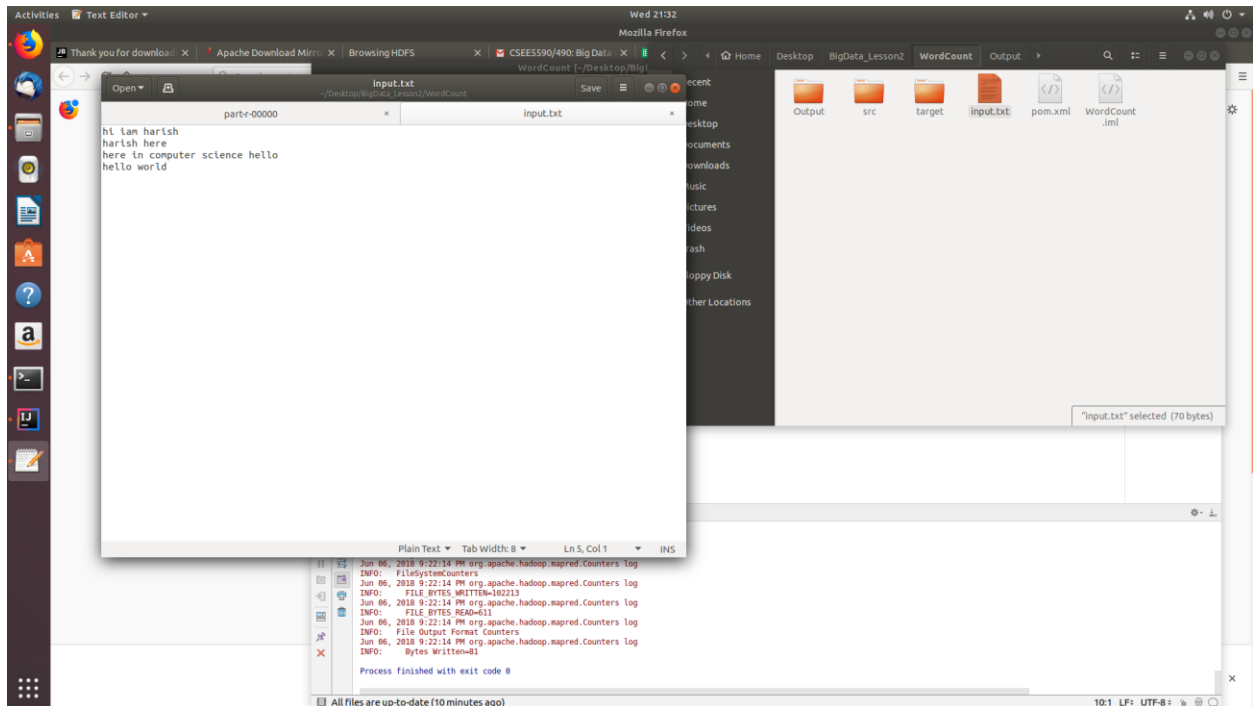


ICP 2

2.Configurations setup in IntelliJ



3.Input.txt file that is given as input



4.Output

The output of the program that is executed

The screenshot shows the IntelliJ IDEA Community Edition interface. The top toolbar includes buttons for Run, Debug, and other IDE functions. The main editor displays the `WordCount.java` file, which contains a word count program. The code is as follows:

```
1 computer 1
2 harish 2
3 hello 2
4 here 2
5 hi 1
6 iam 1
7 in 1
8 science 1
9 world 1
10
```

The left sidebar shows the project structure for `WordCount`, including `src`, `com.wordcount`, `target`, `.classpath`, `.gitignore`, `.project`, `input.txt`, `pom.xml`, `WordCount.iml`, `External Libraries`, and `Scratches and Consoles`.

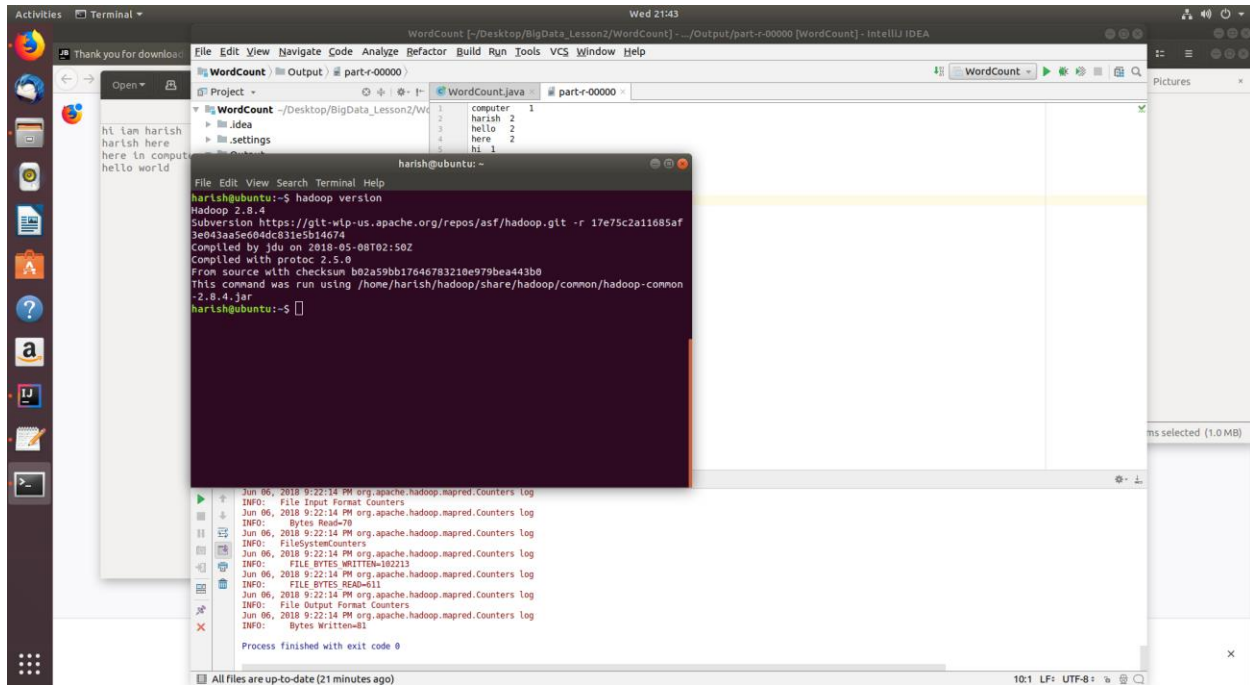
The bottom panel shows the `Run` output for `WordCount`. The output log contains the following messages:

```
Jun 06, 2018 9:22:14 PM org.apache.hadoop.mapred.Counters log
INFO: File Input Format Counters
Jun 06, 2018 9:22:14 PM org.apache.hadoop.mapred.Counters log
INFO: Bytes Read=70
Jun 06, 2018 9:22:14 PM org.apache.hadoop.mapred.Counters log
INFO: FilesystemCounters
Jun 06, 2018 9:22:14 PM org.apache.hadoop.mapred.Counters log
INFO: FILE BYTES WRITTEN=182213
Jun 06, 2018 9:22:14 PM org.apache.hadoop.mapred.Counters log
INFO: FILE BYTES READ=611
Jun 06, 2018 9:22:14 PM org.apache.hadoop.mapred.Counters log
INFO: File Output Format Counters
Jun 06, 2018 9:22:14 PM org.apache.hadoop.mapred.Counters log
INFO: Bytes Written=611
Process finished with exit code 0
```

The status bar at the bottom indicates "All files are up-to-date (8 minutes ago)" and "10:1 LF UTF-8".

5.Hadoop version

The version of Hadoop installed in the system



The screenshot shows an IDE window with a terminal output. The terminal displays the command `hadoop version` and its output, which includes the Hadoop version (2.8.4), the source URL, the commit hash, the compilation date, and the protocol version. Below the terminal output, there is a log of Hadoop MapReduce operations, including file input/output counts and byte read/write statistics.

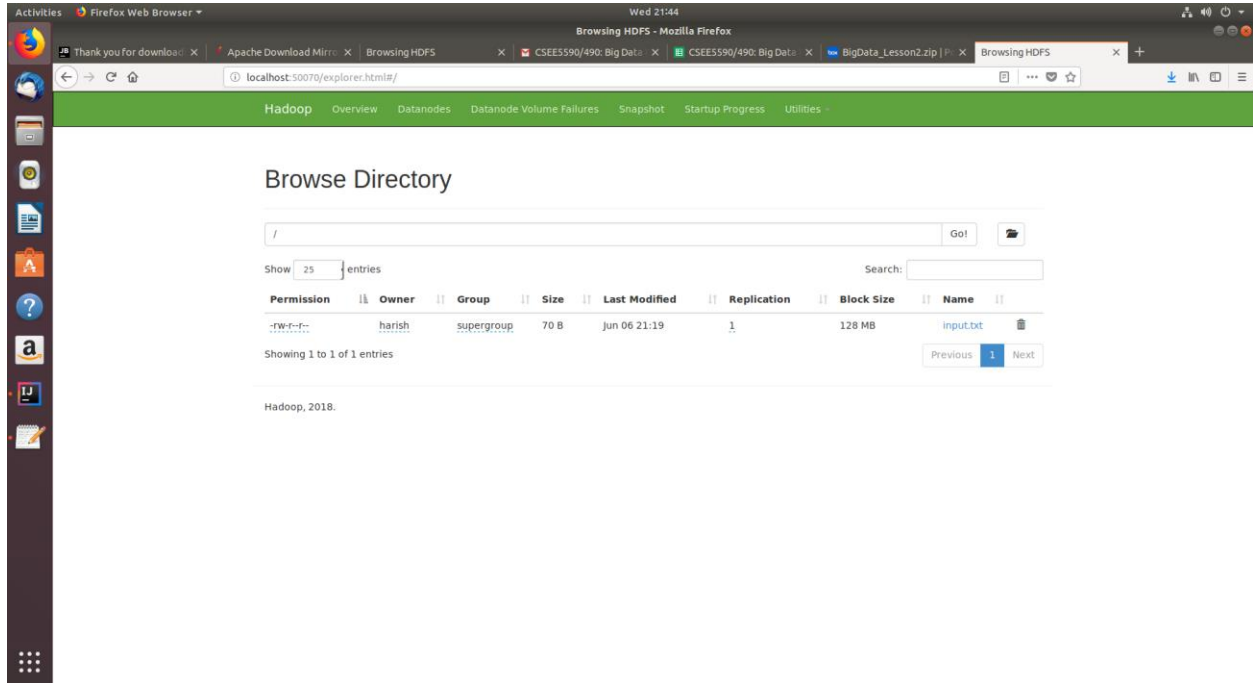
```
harish@ubuntu:~$ hadoop version
Hadoop 2.8.4
Subversion https://git-wip-us.apache.org/repos/asf/hadoop.git -r 17e75c2a11685af3e043aa5e604dc831e5b14674
Compiled by jdu on 2018-05-08T02:50Z
Compiled with protoc 2.5.0
From source with checksum b02a59bb17d46783210e979bea443b0
This command was run using /home/harish/hadoop/share/hadoop/common/hadoop-common-2.8.4.jar
harish@ubuntu:~$
```

```
Jun 06, 2018 9:22:14 PM org.apache.hadoop.mapred.Counters Log
INFO: File Input Format Counters
Jun 06, 2018 9:22:14 PM org.apache.hadoop.mapred.Counters Log
INFO: Bytes Read=70
Jun 06, 2018 9:22:14 PM org.apache.hadoop.mapred.Counters Log
INFO: File System Counters
Jun 06, 2018 9:22:14 PM org.apache.hadoop.mapred.Counters Log
INFO: FILE BYTES WRITTEN=102213
Jun 06, 2018 9:22:14 PM org.apache.hadoop.mapred.Counters Log
INFO: FILE BYTES READ=611
Jun 06, 2018 9:22:14 PM org.apache.hadoop.mapred.Counters Log
INFO: File Output Format Counters
Jun 06, 2018 9:22:14 PM org.apache.hadoop.mapred.Counters Log
INFO: Bytes Written=81
Process finished with exit code 0
```

ICP 2

6.Hadoop filesystem on the localhost

The input file that is created in Hadoop directory



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