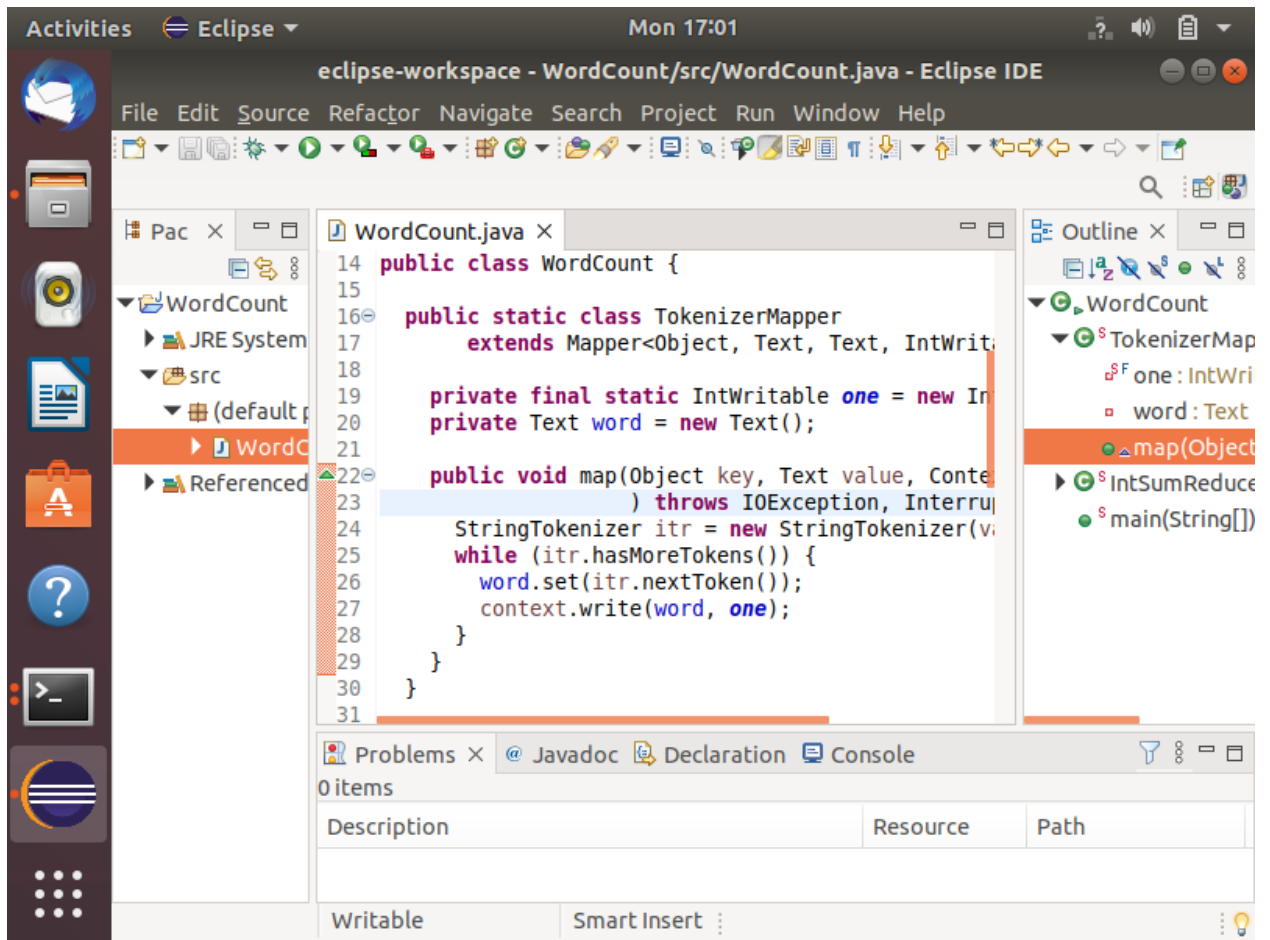


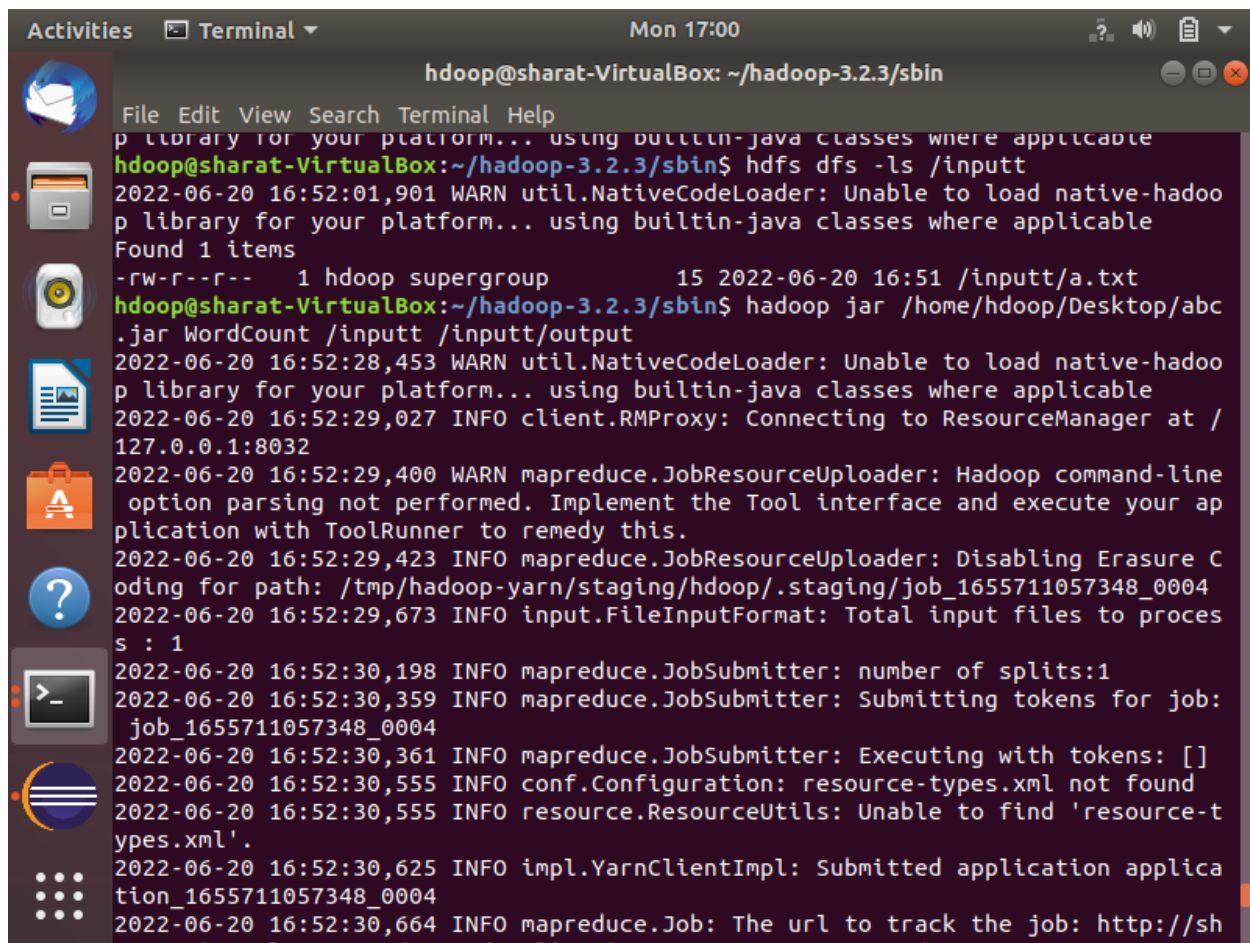
WEEK 6 BDA LAB  
USN:1BM19CS074  
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## Word Count Program using MapReduce

### 1. Eclipse screenshot



### 2. Jar command hadoop

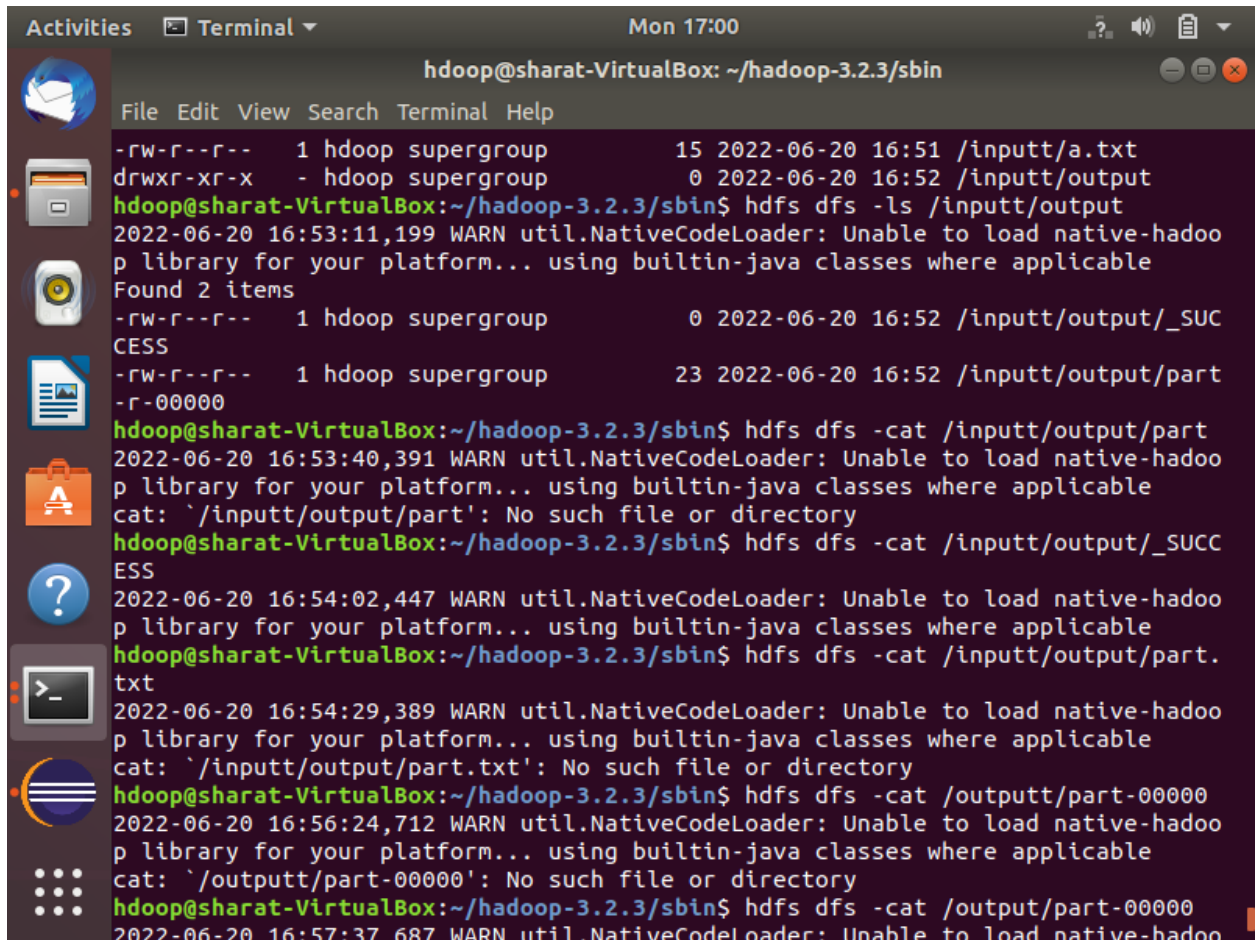


The screenshot shows a terminal window titled "hadoop@sharat-VirtualBox: ~/hadoop-3.2.3/sbin". The terminal displays the following commands and output:

```
hadoop@sharat-VirtualBox:~/hadoop-3.2.3/sbin$ hdfs dfs -ls /inputt
2022-06-20 16:52:01,901 WARN util.NativeCodeLoader: Unable to load native-hadoop
p library for your platform... using builtin-java classes where applicable
Found 1 items
-rw-r--r-- 1 hadoop supergroup 15 2022-06-20 16:51 /inputt/a.txt
hadoop@sharat-VirtualBox:~/hadoop-3.2.3/sbin$ hadoop jar /home/hadoop/Desktop/abc
.jar WordCount /inputt /inputt/output
2022-06-20 16:52:28,453 WARN util.NativeCodeLoader: Unable to load native-hadoop
p library for your platform... using builtin-java classes where applicable
2022-06-20 16:52:29,027 INFO client.RMPProxy: Connecting to ResourceManager at /
127.0.0.1:8032
2022-06-20 16:52:29,400 WARN mapreduce.JobResourceUploader: Hadoop command-line
option parsing not performed. Implement the Tool interface and execute your ap
plication with ToolRunner to remedy this.
2022-06-20 16:52:29,423 INFO mapreduce.JobResourceUploader: Disabling Erasure C
oding for path: /tmp/hadoop-yarn/staging/hadoop/.staging/job_1655711057348_0004
2022-06-20 16:52:29,673 INFO input.FileInputFormat: Total input files to proces
s : 1
2022-06-20 16:52:30,198 INFO mapreduce.JobSubmitter: number of splits:1
2022-06-20 16:52:30,359 INFO mapreduce.JobSubmitter: Submitting tokens for job:
job_1655711057348_0004
2022-06-20 16:52:30,361 INFO mapreduce.JobSubmitter: Executing with tokens: []
2022-06-20 16:52:30,555 INFO conf.Configuration: resource-types.xml not found
2022-06-20 16:52:30,555 INFO resource.ResourceUtils: Unable to find 'resource-t
ypes.xml'.
2022-06-20 16:52:30,625 INFO impl.YarnClientImpl: Submitted application applica
tion_1655711057348_0004
2022-06-20 16:52:30,664 INFO mapreduce.Job: The url to track the job: http://sh
```

### 3. Mapreduce screenshot

```
Activities Terminal Mon 17:00
hadoop@sharat-VirtualBox: ~/hadoop-3.2.3/sbin
File Edit View Search Terminal Help
2022-06-20 16:52:54,067 INFO mapreduce.Job: Job job_1655711057348_0004 completed successfully
2022-06-20 16:52:54,186 INFO mapreduce.Job: Counters: 54
  File System Counters
    FILE: Number of bytes read=45
    FILE: Number of bytes written=472063
    FILE: Number of read operations=0
    FILE: Number of large read operations=0
    FILE: Number of write operations=0
    HDFS: Number of bytes read=114
    HDFS: Number of bytes written=23
    HDFS: Number of read operations=8
    HDFS: Number of large read operations=0
    HDFS: Number of write operations=2
    HDFS: Number of bytes read erasure-coded=0
  Job Counters
    Launched map tasks=1
    Launched reduce tasks=1
    Data-local map tasks=1
    Total time spent by all maps in occupied slots (ms)=5372
    Total time spent by all reduces in occupied slots (ms)=2865
    Total time spent by all map tasks (ms)=5372
    Total time spent by all reduce tasks (ms)=2865
    Total vcore-milliseconds taken by all map tasks=5372
    Total vcore-milliseconds taken by all reduce tasks=2865
    Total megabyte-milliseconds taken by all map tasks=5500928
    Total megabyte-milliseconds taken by all reduce tasks=2933760
  Map-Reduce Framework
    Map input records=1
```



The image shows a terminal window titled "hadoop@sharat-VirtualBox: ~/hadoop-3.2.3/sbin". The window has a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The terminal output shows the following commands and their results:

```
-rw-r--r-- 1 hadoop supergroup 15 2022-06-20 16:51 /inputt/a.txt
drwxr-xr-x - hadoop supergroup 0 2022-06-20 16:52 /inputt/output
hadoop@sharat-VirtualBox:~/hadoop-3.2.3/sbin$ hdfs dfs -ls /inputt/output
2022-06-20 16:53:11,199 WARN util.NativeCodeLoader: Unable to load native-hadoop
p library for your platform... using builtin-java classes where applicable
Found 2 items
-rw-r--r-- 1 hadoop supergroup 0 2022-06-20 16:52 /inputt/output/_SUCCESS
-rw-r--r-- 1 hadoop supergroup 23 2022-06-20 16:52 /inputt/output/part
-r-00000
hadoop@sharat-VirtualBox:~/hadoop-3.2.3/sbin$ hdfs dfs -cat /inputt/output/part
2022-06-20 16:53:40,391 WARN util.NativeCodeLoader: Unable to load native-hadoop
p library for your platform... using builtin-java classes where applicable
cat: `/inputt/output/part': No such file or directory
hadoop@sharat-VirtualBox:~/hadoop-3.2.3/sbin$ hdfs dfs -cat /inputt/output/_SUCCESS
2022-06-20 16:54:02,447 WARN util.NativeCodeLoader: Unable to load native-hadoop
p library for your platform... using builtin-java classes where applicable
hadoop@sharat-VirtualBox:~/hadoop-3.2.3/sbin$ hdfs dfs -cat /inputt/output/part.
txt
2022-06-20 16:54:29,389 WARN util.NativeCodeLoader: Unable to load native-hadoop
p library for your platform... using builtin-java classes where applicable
cat: `/inputt/output/part.txt': No such file or directory
hadoop@sharat-VirtualBox:~/hadoop-3.2.3/sbin$ hdfs dfs -cat /outputt/part-00000
2022-06-20 16:56:24,712 WARN util.NativeCodeLoader: Unable to load native-hadoop
p library for your platform... using builtin-java classes where applicable
cat: `/outputt/part-00000': No such file or directory
hadoop@sharat-VirtualBox:~/hadoop-3.2.3/sbin$ hdfs dfs -cat /output/part-00000
2022-06-20 16:57:37,687 WARN util.NativeCodeLoader: Unable to load native-hadoop
```

#### 4. Output file with frequency

```
Activities  Terminal  Mon 17:00
hadoop@sharat-VirtualBox: ~/hadoop-3.2.3/sbin
File Edit View Search Terminal Help
cat: `/output/part-00000': No such file or directory
hadoop@sharat-VirtualBox:~/hadoop-3.2.3/sbin$ hdfs dfs -ls /inputt/output
2022-06-20 16:58:12,809 WARN util.NativeCodeLoader: Unable to load native-hadoop
p library for your platform... using builtin-java classes where applicable
Found 2 items
-rw-r--r-- 1 hadoop supergroup          0 2022-06-20 16:52 /inputt/output/_SUC
CESS
-rw-r--r-- 1 hadoop supergroup       23 2022-06-20 16:52 /inputt/output/part
-r-00000
hadoop@sharat-VirtualBox:~/hadoop-3.2.3/sbin$ hdfs dfs -cat /inputt/output/part-
00000
2022-06-20 16:58:30,116 WARN util.NativeCodeLoader: Unable to load native-hadoop
p library for your platform... using builtin-java classes where applicable
cat: `/inputt/output/part-00000': No such file or directory
hadoop@sharat-VirtualBox:~/hadoop-3.2.3/sbin$ hdfs dfs -cat inputt/output/part-0
0000
2022-06-20 16:58:35,823 WARN util.NativeCodeLoader: Unable to load native-hadoop
p library for your platform... using builtin-java classes where applicable
cat: `inputt/output/part-00000': No such file or directory
hadoop@sharat-VirtualBox:~/hadoop-3.2.3/sbin$ hdfs dfs -cat /inputt/output/part-
r-00000
2022-06-20 17:00:09,739 WARN util.NativeCodeLoader: Unable to load native-hadoop
p library for your platform... using builtin-java classes where applicable
a          1
is         1
test       1
this       1
hadoop@sharat-VirtualBox:~/hadoop-3.2.3/sbin$
```