1BM22CS158_Lab6_Hadoop

Start-all.sh

```
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ start-all.sh
WARNING: Attempting to start all Apache Hadoop daemons as hadoop in 10 seconds.
WARNING: This is not a recommended production deployment configuration.
WARNING: Use CTRL-C to abort.
Starting namenodes on [localhost]
localhost: namenode is running as process 5709.  Stop it first and ensure /tmp/hadoop-hadoop-namenode.pid file is empty before retry.
Starting datanodes
localhost: datanode is running as process 5895.  Stop it first and ensure /tmp/hadoop-hadoop-datanode.pid file is empty before retry.
Starting secondary namenodes [bmscecse-HP-Elite-Tower-800-G9-Desktop-PC]
bmscecse-HP-Elite-Tower-800-G9-Desktop-PC: secondarynamenode is running as process 6188.  Stop it first and ensure /tmp/hadoop-hadoop-secondarynamenode.pid file is empty befor
Starting resourcemanager
resourcemanager is running as process 6478.  Stop it first and ensure /tmp/hadoop-hadoop-resourcemanager.pid file is empty before retry.
Starting nodemanagers
localhost: nodemanager is running as process 6646.  Stop it first and ensure /tmp/hadoop-hadoop-nodemanager.pid file is empty before retry.
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$
```

1. Switch to hduser

su hduser   right user (hadoop), so no need to su hduser.

#jps

```
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ jps
9877 Jps
6646 NodeManager
5895 DataNode
6188 SecondaryNameNode
5709 NameNode
6478 ResourceManager
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$
```

#which hadoop

```
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ which hadoop
/home/hadoop/hadoop/bin/hadoop
```

```
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ which hadoop
/home/hadoop/hadoop/bin/hadoop
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ cd /home/hadoop/hadoop/bin/hadoop/sbin
./start-dfs.sh
./start-yarn.sh
bash: cd: /home/hadoop/hadoop/bin/hadoop/sbin: Not a directory
bash: ./start-dfs.sh: No such file or directory
bash: ./start-yarn.sh: No such file or directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ cd /home/hadoop/hadoop/bin/hadoop/sbin
bash: cd: /home/hadoop/hadoop/bin/hadoop/sbin: Not a directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ cd /home/hadoop/hadoop/bin/hadoop
bash: cd: /home/hadoop/hadoop/bin/hadoop: Not a directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ cd hadoop
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/hadoop$ ls
bin  etc  include  lib  libexec  LICENSE-binary  licenses-binary  LICENSE.txt  logs  NOTICE-binary  NOTICE.txt  README.txt  sbin  share
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/hadoop$ cd sbin
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/hadoop/sbin$ ./start-dfs.sh
Starting namenodes on [localhost]
localhost: namenode is running as process 5709.  Stop it first and ensure /tmp/hadoop-hadoop-namenode.pid file is empty before retry.
Starting datanodes
localhost: datanode is running as process 5895.  Stop it first and ensure /tmp/hadoop-hadoop-datanode.pid file is empty before retry.
Starting secondary namenodes [bmscecse-HP-Elite-Tower-800-G9-Desktop-PC]
bmscecse-HP-Elite-Tower-800-G9-Desktop-PC: secondarynamenode is running as process 6188.  Stop it first and ensure /tmp/hadoop-hadoop-secondarynamenode.pid file is empty before retry.
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/hadoop/sbin$ ./start-yarn.sh
Starting resourcemanager
resourcemanager is running as process 6478.  Stop it first and ensure /tmp/hadoop-hadoop-resourcemanager.pid file is empty before retry.
Starting nodemanagers
localhost: nodemanager is running as process 6646.  Stop it first and ensure /tmp/hadoop-hadoop-nodemanager.pid file is empty before retry.
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/hadoop/sbin$
```

Create and Upload the File

Directory change and file creation hadoop file

```
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop fs -ls /
Found 4 items
drwxr-xr-x   - hadoop supergroup          0 2024-05-14 14:55 /HELLO
drwxr-xr-x   - hadoop supergroup          0 2024-05-14 14:44 /abc
drwxr-xr-x   - hadoop supergroup          0 2024-05-21 15:09 /output
drwxr-xr-x   - hadoop supergroup          0 2024-05-21 14:59 /rgs
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop fs -mkdir /shu158
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop fs -copyFromLocal /home/hadoop/Desktop/hadoop158.txt /shu158/hadoop158.txt
copyFromLocal: `/home/hadoop/Desktop/hadoop158.txt': No such file or directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop fs -copyFromLocal /home/hadoop/Desktop/hadoop158 /shu158/hadoop158.txt
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$
```

```
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/hadoop/sbin$ cd ~
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ cd desktop/
bash: cd: desktop/: No such file or directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ cd Desktop/
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ nano hadoop158
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop fs -ls
ls: `.': No such file or directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop fs -ls /
Found 4 items
drwxr-xr-x   - hadoop supergroup          0 2024-05-14 14:55 /HELLO
drwxr-xr-x   - hadoop supergroup          0 2024-05-14 14:44 /abc
drwxr-xr-x   - hadoop supergroup          0 2024-05-21 15:09 /output
drwxr-xr-x   - hadoop supergroup          0 2024-05-21 14:59 /rgs
```

```
-rw-r--r--   hadoop supergroup            2024-05-21 14:39 /gs
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop fs -mkdir /shu158
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop fs -copyFromLocal /home/hadoop/Desktop/hadoop158.txt /shu158/hadoop158.txt
copyFromLocal: `/home/hadoop/Desktop/hadoop158.txt': No such file or directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop fs -copyFromLocal /home/hadoop/Desktop/hadoop158 /shu158/hadoop158.txt
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop jar /home/hadoop/Desktop/WordCount.jar wordcount.WordCount /shu158/hadoop158.txt /outp
JAR does not exist or is not a normal file: /home/hadoop/Desktop/WordCount.jar
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ ^C
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ ls /home/hadoop/Desktop/WordCount.jar
```

```
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ echo -e "hi how are you\nhow is your job\nhow is your family\nhow is your brother\nhow is your sister" > ~/Desktop/hadoop158.txt
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop fs -copyFromLocal ~/Desktop/hadoop158.txt /shu158/hadoop158.txt
copyFromLocal: `/shu158/hadoop158.txt': File exists
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop fs -ls /shu158
Found 1 items
-rw-r--r--   1 hadoop supergroup         89 2025-04-15 14:47 /shu158/hadoop158.txt
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$
```

Create the file first:

Jar file creation along with word count file


```
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC: ~/Desktop

hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ ^[[200~mkdir ~/WordCountProject
mkdir: command not found
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ cd ~/WordCountProject
bash: cd: /home/hadoop/WordCountProject: No such file or directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ cd ~/WordCountProject
bash: cd: /home/hadoop/WordCountProject: No such file or directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ cd ~
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ ^[[200~mkdir ~/WordCountProject
mkdir: command not found
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ cd ~/WordCountProject
bash: cd: /home/hadoop/WordCountProject: No such file or directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ ~mkdir ~/WordCountProject
cd ~/WordCountProject
Command '~mkdir' not found, did you mean:
  command 'mmkdir' from deb mblaze (1.1-1)
  command 'hmkdir' from deb hfsutils (3.2.6-15build2)
  command 'mkdir' from deb coreutils (8.32-4.1ubuntu1.2)
Try: apt install <deb name>
bash: cd: /home/hadoop/WordCountProject: No such file or directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ ^C
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ mkdir ~/WordCountProject
cd ~/WordCountProject
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/WordCountProject$ nano WordCount.java
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/WordCountProject$ mkdir classes
javac -classpath `hadoop classpath` -d classes WordCount.java
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/WordCountProject$ jar -cvf WordCount.jar -C classes/ .
mv WordCount.jar ~/Desktop/
added manifest
adding: wordcount/(in = 0) (out= 0)(stored 0%)
adding: wordcount/WordCount$TokenizerMapper.class(in = 1772) (out= 770)(deflated 56%)
adding: wordcount/WordCount.class(in = 1541) (out= 836)(deflated 45%)
adding: wordcount/WordCount$IntSumReducer.class(in = 1775) (out= 757)(deflated 57%)
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/WordCountProject$
```



```
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop fs -ls /shu158
Found 1 items
-rw-r--r--   1 hadoop supergroup         89 2025-04-15 14:47 /shu158/hadoop158.txt
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ mkdir ~/WordCountProject
cd ~/WordCountProject
nano WordCount.java
mkdir: cannot create directory '/home/hadoop/WordCountProject': File exists
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/WordCountProject$ ^[[200~mkdir classes
mkdir: command not found
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/WordCountProject$ javac -classpath `hadoop classpath` -d classes WordCount.java
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/WordCountProject$ javac -classpath `hadoop classpath` -d classes WordCount.java
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/WordCountProject$ jar -cvf WordCount.jar -C classes/ .
added manifest
adding: wordcount/(in = 0) (out= 0)(stored 0%)
adding: wordcount/WordCount$TokenizerMapper.class(in = 1772) (out= 770)(deflated 56%)
adding: wordcount/WordCount.class(in = 1541) (out= 836)(deflated 45%)
adding: wordcount/WordCount$IntSumReducer.class(in = 1775) (out= 757)(deflated 57%)
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/WordCountProject$
```

```
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ start-all.sh
WARNING: Attempting to start all Apache Hadoop daemons as hadoop in 10 seconds.
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Starting namenodes on [localhost]
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/tmp/hadoop-hadoop-namenode.pid file is empty before retry.
Starting datanodes
localhost: datanode is running as process 5895.  Stop it first and ensure
/tmp/hadoop-hadoop-datanode.pid file is empty before retry.
Starting secondary namenodes [bmscecse-HP-Elite-Tower-800-G9-Desktop-PC]
bmscecse-HP-Elite-Tower-800-G9-Desktop-PC: secondarynamenode is running as process
6188.  Stop it first and ensure /tmp/hadoop-hadoop-secondarynamenode.pid file is empty before
retry.
Starting resourcemanager
resourcemanager is running as process 6478.  Stop it first and ensure
/tmp/hadoop-hadoop-resourcemanager.pid file is empty before retry.
Starting nodemanagers
localhost: nodemanager is running as process 6646.  Stop it first and ensure
/tmp/hadoop-hadoop-nodemanager.pid file is empty before retry.
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ jps
9877 Jps
6646 NodeManager
5895 DataNode
6188 SecondaryNameNode
5709 NameNode
6478 ResourceManager
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ ^[[200~which hadoop
which: command not found
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ which hadoop
/home/hadoop/hadoop/bin/hadoop
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ cd
/home/hadoop/hadoop/bin/hadoop/sbin
./start-dfs.sh
./start-yarn.sh
bash: cd: /home/hadoop/hadoop/bin/hadoop/sbin: Not a directory
bash: ./start-dfs.sh: No such file or directory
bash: ./start-yarn.sh: No such file or directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ cd
/home/hadoop/hadoop/bin/hadoop/sbin
bash: cd: /home/hadoop/hadoop/bin/hadoop/sbin: Not a directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ cd
/home/hadoop/hadoop/bin/hadoop
```

bash: cd: /home/hadoop/hadoop/bin/hadoop: Not a directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ cd hadoop
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/hadoop$ ls
bin etc include lib libexec LICENSE-binary licenses-binary LICENSE.txt logs
NOTICE-binary NOTICE.txt README.txt sbin share
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/hadoop$ cd sbin
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/hadoop/sbin$ ./start-dfs.sh
Starting namenodes on [localhost]
localhost: namenode is running as process 5709. Stop it first and ensure
/tmp/hadoop-hadoop-namenode.pid file is empty before retry.
Starting datanodes
localhost: datanode is running as process 5895. Stop it first and ensure
/tmp/hadoop-hadoop-datanode.pid file is empty before retry.
Starting secondary namenodes [bmscecse-HP-Elite-Tower-800-G9-Desktop-PC]
bmscecse-HP-Elite-Tower-800-G9-Desktop-PC: secondarynamenode is running as process
6188. Stop it first and ensure /tmp/hadoop-hadoop-secondarynamenode.pid file is empty before
retry.
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/hadoop/sbin$ ./start-yarn.sh
Starting resourcemanager
resourcemanager is running as process 6478. Stop it first and ensure
/tmp/hadoop-hadoop-resourcemanager.pid file is empty before retry.
Starting nodemanagers
localhost: nodemanager is running as process 6646. Stop it first and ensure
/tmp/hadoop-hadoop-nodemanager.pid file is empty before retry.
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/hadoop/sbin$ cd ~
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ cd desktop/
bash: cd: desktop/: No such file or directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ cd Desktop/
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ nano hadoop158
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop fs -ls
ls: `.': No such file or directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop fs -ls /
Found 4 items
drwxr-xr-x   - hadoop supergroup   0 2024-05-14 14:55 /HELLO
drwxr-xr-x   - hadoop supergroup   0 2024-05-14 14:44 /abc
drwxr-xr-x   - hadoop supergroup   0 2024-05-21 15:09 /output
drwxr-xr-x   - hadoop supergroup   0 2024-05-21 14:59 /rgs
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop fs -mkdir /shu158
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop fs
-copyFromLocal /home/hadoop/Desktop/hadoop158.txt /shu158/hadoop158.txt
copyFromLocal: `/home/hadoop/Desktop/hadoop158.txt': No such file or directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop fs
-copyFromLocal /home/hadoop/Desktop/hadoop158 /shu158/hadoop158.txt

hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop jar /home/hadoop/Desktop/WordCount.jar wordcount.WordCount /shu158/hadoop158.txt /output
JAR does not exist or is not a normal file: /home/hadoop/Desktop/WordCount.jar
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ ^C
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ ls /home/hadoop/Desktop/WordCount.jar
ls: cannot access '/home/hadoop/Desktop/WordCount.jar': No such file or directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ ls /home/hadoop/Desktop/WordCount.jar
ls: cannot access '/home/hadoop/Desktop/WordCount.jar': No such file or directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ ^[[200~mkdir ~/WordCountProject
mkdir: command not found
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ cd ~/WordCountProject
bash: cd: /home/hadoop/WordCountProject: No such file or directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ ~mkdir ~/WordCountProject
Command '~mkdir' not found, did you mean:
  command 'hmkdir' from deb hfsutils (3.2.6-15build2)
  command 'mmkdir' from deb mblaze (1.1-1)
  command 'mkdir' from deb coreutils (8.32-4.1ubuntu1.2)
Try: apt install <deb name>
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop jar /home/hadoop/Desktop/WordCount.jar wordcount.WordCount /shu158/hadoop158.txt /output
2025-04-15 15:18:42,292 INFO impl.MetricsConfig: Loaded properties from hadoop-metrics2.properties
2025-04-15 15:18:42,332 INFO impl.MetricsSystemImpl: Scheduled Metric snapshot period at 10 second(s).
2025-04-15 15:18:42,332 INFO impl.MetricsSystemImpl: JobTracker metrics system started
Exception in thread "main" org.apache.hadoop.mapred.FileAlreadyExistsException: Output directory hdfs://localhost:9000/output already exists
        at org.apache.hadoop.mapreduce.lib.output.FileOutputFormat.checkOutputSpecs(FileOutputFormat.java:164)
        at org.apache.hadoop.mapreduce.JobSubmitter.checkSpecs(JobSubmitter.java:277)
        at org.apache.hadoop.mapreduce.JobSubmitter.submitJobInternal(JobSubmitter.java:143)
        at org.apache.hadoop.mapreduce.Job$11.run(Job.java:1678)
        at org.apache.hadoop.mapreduce.Job$11.run(Job.java:1675)
        at java.base/java.security.AccessController.doPrivileged(Native Method)
        at java.base/javax.security.auth.Subject.doAs(Subject.java:423)
        at org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:1899)
        at org.apache.hadoop.mapreduce.Job.submit(Job.java:1675)

```
        at org.apache.hadoop.mapreduce.Job.waitForCompletion(Job.java:1696)
        at wordcount.WordCount.main(WordCount.java:54)
        at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
        at
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.jav
a:62)
        at
java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessor
Impl.java:43)
        at java.base/java.lang.reflect.Method.invoke(Method.java:566)
        at org.apache.hadoop.util.RunJar.run(RunJar.java:328)
        at org.apache.hadoop.util.RunJar.main(RunJar.java:241)
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ mkdir
~/WordCountProject
mkdir: cannot create directory '/home/hadoop/WordCountProject': File exists
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ mkdir
~/WordCountProject
mkdir: cannot create directory '/home/hadoop/WordCountProject': File exists
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ echo -e "hi how are
you\nhow is your job\nhow is your family\nhow is your brother\nhow is your sister" >
~/Desktop/hadoop158.txt
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop fs
-copyFromLocal ~/Desktop/hadoop158.txt /shu158/hadoop158.txt
copyFromLocal: `/shu158/hadoop158.txt': File exists
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop fs -ls /shu158
Found 1 items
-rw-r--r--   1 hadoop supergroup        89 2025-04-15 14:47 /shu158/hadoop158.txt
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ mkdir
~/WordCountProject
cd ~/WordCountProject
nano WordCount.java
mkdir: cannot create directory '/home/hadoop/WordCountProject': File exists
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/WordCountProject$ ^[[200~mkdir
classes
mkdir: command not found
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/WordCountProject$ javac -classpath
`hadoop classpath` -d classes WordCount.java
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/WordCountProject$ javac -classpath
`hadoop classpath` -d classes WordCount.java
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/WordCountProject$ jar -cvf
WordCount.jar -C classes/ .
added manifest
adding: wordcount/(in = 0) (out= 0)(stored 0%)
adding: wordcount/WordCount$TokenizerMapper.class(in = 1772) (out= 770)(deflated 56%)
```

adding: wordcount/WordCount.class(in = 1541) (out= 836)(deflated 45%)
adding: wordcount/WordCount$IntSumReducer.class(in = 1775) (out= 757)(deflated 57%)
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/WordCountProject$

```
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ mkdir ~/WordCountProject
mkdir: cannot create directory '/home/hadoop/WordCountProject': File exists
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ mkdir ~/WordCountProject
mkdir: cannot create directory '/home/hadoop/WordCountProject': File exists
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ echo -e "hi how are you\nhow is your job\nhow is your family\nhow is your brother\nhow is your sister" > ~/Desktop/hadoop158.txt
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop fs -copyFromLocal ~/Desktop/hadoop158.txt /shu158/hadoop158.txt
copyFromLocal: `/shu158/hadoop158.txt': File exists
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop fs -ls /shu158
Found 1 items
-rw-r--r--   1 hadoop supergroup         89 2025-04-15 14:47 /shu158/hadoop158.txt
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ mkdir ~/WordCountProject
cd ~/WordCountProject
nano WordCount.java
mkdir: cannot create directory '/home/hadoop/WordCountProject': File exists
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/WordCountProject$ ^[[200~mkdir classes
mkdir: command not found
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/WordCountProject$ javac -classpath `hadoop classpath` -d classes WordCount.java
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/WordCountProject$ javac -classpath `hadoop classpath` -d classes WordCount.java
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/WordCountProject$ jar -cvf WordCount.jar -C classes/ .
added manifest
adding: wordcount/(in = 0) (out= 0)(stored 0%)
adding: wordcount/WordCount$TokenizerMapper.class(in = 1772) (out= 770)(deflated 56%)
adding: wordcount/WordCount.class(in = 1541) (out= 836)(deflated 45%)
adding: wordcount/WordCount$IntSumReducer.class(in = 1775) (out= 757)(deflated 57%)
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~/WordCountProject$
```