Output-

```
hdp123@stud-OptiPlex-3060:~$ ls
analyzelogs  analyzelogs2  Desktop  Documents  Downloads  hadoop-2.10.1.tar.gz  Music  Pictures  Public  snap  Templates  Videos
hdp123@stud-OptiPlex-3060:~$ cd analyzelogs
hdp123@stud-OptiPlex-3060:~/analyzelogs$ ls
access_log_short.txt  hadoop-mapreduce-example-file.txt  SalesCountryDriver.java  SalesCountryReducer.java  SalesMapper.java
hdp123@stud-OptiPlex-3060:~/analyzelogs$ export CLASSPATH="$HADOOP_HOME/share/hadoop/mapreduce/hadoop-mapreduce-client-core-2.9.0.jar:$HADOOP_
HOME/share/hadoop/mapreduce/hadoop-mapreduce-client-common-2.9.0.jar:$HADOOP_HOME/share/hadoop/common/hadoop-common-2.9.0.jar:~/analyzelogs/Sa
lesCountry/*:$HADOOP_HOME/lib/*"
hdp123@stud-OptiPlex-3060:~/analyzelogs$ javac -d . SalesMapper.java SalesCountryReducer.java SalesCountryDriver.java
hdp123@stud-OptiPlex-3060:~/analyzelogs$ cd SalesCountry/
hdp123@stud-OptiPlex-3060:~/analyzelogs/SalesCountry$ ls
SalesCountryDriver.class  SalesCountryReducer.class  SalesMapper.class
hdp123@stud-OptiPlex-3060:~/analyzelogs/SalesCountry$ cd ..
hdp123@stud-OptiPlex-3060:~/analyzelogs$ sudo nano Manifest.txt
hdp123@stud-OptiPlex-3060:~/analyzelogs$ jar -cfm analyzelogs.jar
Usage: jar [OPTION...] [ [--release VERSION] [-C dir] files] ...
Try `jar --help' for more information.
hdp123@stud-OptiPlex-3060:~/analyzelogs$ jar -cfm analyzelogs.jar Manifest.txt SalesCountry/*.class
hdp123@stud-OptiPlex-3060:~/analyzelogs$ cd
```



```
Try `jar --help' for more information.
hdp123@stud-OptiPlex-3060:~/analyzelogs$ jar -cfm analyzelogs.jar Manifest.txt SalesCountry/*.class
hdp123@stud-OptiPlex-3060:~/analyzelogs$ cd
hdp123@stud-OptiPlex-3060:~$ start-dfs.sh
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/
lib/hadoop-auth-2.9.0.jar) to method sun.security.krb5.Config.getInstance()
WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
23/04/25 14:36:38 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where appli
cable
Starting namenodes on [localhost]
localhost: starting namenode, logging to /usr/local/hadoop/logs/hadoop-hdp123-namenode-stud-OptiPlex-3060.out
localhost: starting datanode, logging to /usr/local/hadoop/logs/hadoop-hdp123-datanode-stud-OptiPlex-3060.out
Starting secondary namenodes [0.0.0.0]
0.0.0.0: starting secondarynamenode, logging to /usr/local/hadoop/logs/hadoop-hdp123-secondarynamenode-stud-OptiPlex-3060.out
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/
lib/hadoop-auth-2.9.0.jar) to method sun.security.krb5.Config.getInstance()
WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
23/04/25 14:36:47 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where appli
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hdp123@stud-OptiPlex-3060:~$ start-yarn.sh
starting yarn daemons
starting resourcemanager, logging to /usr/local/hadoop/logs/yarn-hdp123-resourcemanager-stud-OptiPlex-3060.out
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/
lib/hadoop-auth-2.9.0.jar) to method sun.security.krb5.Config.getInstance()
WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
localhost: starting nodemanager, logging to /usr/local/hadoop/logs/yarn-hdp123-nodemanager-stud-OptiPlex-3060.out
hdp123@stud-OptiPlex-3060:~$
```
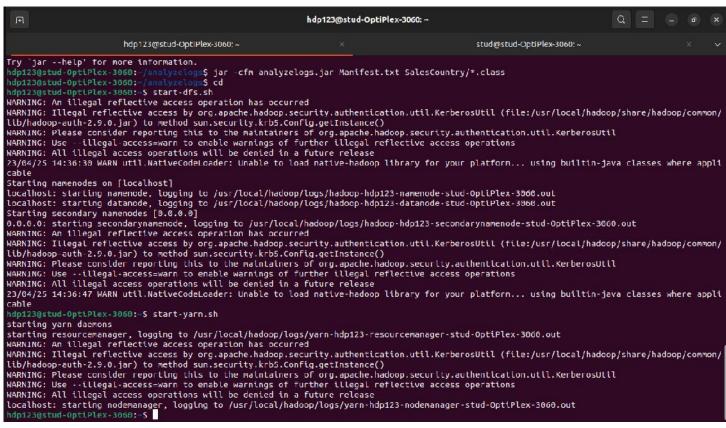


```
hdp123@stud-OptiPlex-3060:~$ jps
26707 SecondaryNameNode
27065 NodeManager
26937 ResourceManager
26507 DataNode
26237 NameNode
27918 Jps
hdp123@stud-OptiPlex-3060:~$ ls
analyzelogs  analyzelogs2  Desktop  Documents  Downloads  hadoop-2.10.1.tar.gz  Music  Pictures  Public  snap  Templates  Videos
hdp123@stud-OptiPlex-3060:~$ cd analyzelogs
hdp123@stud-OptiPlex-3060:~/analyzelogs$ sudo mkdir input1000
hdp123@stud-OptiPlex-3060:~/analyzelogs$ ls
access_log_short.csv  analyzelogs.jar       input      Manifest.txt  SalesCountryDriver.java  SalesMapper.java
access_log_short.txt  hadoop-mapreduce-example-file.txt  input1000  SalesCountry   SalesCountryReducer.java
hdp123@stud-OptiPlex-3060:~/analyzelogs$ sudo cp access_log_short.csv input1000/
hdp123@stud-OptiPlex-3060:~/analyzelogs$ $HADOOP_HOME/bin/hdfs dfs -put ~/input1000 /
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/
```

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cable
hdp123@stud-OptiPlex-3060:~/analyzelogs$ $HADOOP_HOME/bin/hadoop jar analyzelogs.jar  /input1000 /output2000
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/
lib/hadoop-auth-2.9.0.jar) to method sun.security.krb5.Config.getInstance()
WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
23/04/25 14:44:05 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where appli
cable
23/04/25 14:44:06 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032
23/04/25 14:44:06 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032
23/04/25 14:44:06 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool interface and execu
te your application with ToolRunner to remedy this.
23/04/25 14:44:06 INFO mapred.FileInputFormat: Total input files to process : 1
23/04/25 14:44:06 INFO mapreduce.JobSubmitter: number of splits:2
23/04/25 14:44:07 INFO Configuration.deprecation: yarn.resourcemanager.system-metrics-publisher.enabled is deprecated. Instead, use yarn.syste
m-metrics-publisher.enabled
23/04/25 14:44:07 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1682413619585_0001
23/04/25 14:44:07 INFO impl.YarnClientImpl: Submitted application application_1682413619585_0001
23/04/25 14:44:08 INFO mapreduce.Job: The url to track the job: http://stud-OptiPlex-3060:8088/proxy/application_1682413619585_0001/
23/04/25 14:44:08 INFO mapreduce.Job: Running job: job_1682413619585_0001
23/04/25 14:44:11 INFO mapreduce.Job: Job job_1682413619585_0001 running in uber mode : false
23/04/25 14:44:14 INFO mapreduce.Job:  map 0% reduce 0%
23/04/25 14:44:19 INFO mapreduce.Job:  map 100% reduce 0%
23/04/25 14:44:23 INFO mapreduce.Job:  map 100% reduce 100%
23/04/25 14:44:24 INFO mapreduce.Job: Job job_1682413619585_0001 completed successfully
23/04/25 14:44:24 INFO mapreduce.Job: Counters: 49
        File System Counters
                FILE: Number of bytes read=26793
                FILE: Number of bytes written=659375
                FILE: Number of read operations=0
                FILE: Number of large read operations=0
                FILE: Number of write operations=0
                HDFS: Number of bytes read=147738
                HDFS: Number of bytes written=383B
```

```
                Bytes Read=147189
        File Output Format Counters
                Bytes Written=383B
hdp123@stud-OptiPlex-3060:~/analyzelogs$ $HADOOP_HOME/bin/hdfs dfs -cat /output2000/part-00000
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/
lib/hadoop-auth-2.9.0.jar) to method sun.security.krb5.Config.getInstance()
WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
23/04/25 14:44:46 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where appli
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10.1.1.236      7
10.1.181.142    14
10.1.232.31     5
10.10.55.142    14
10.102.101.66   1
10.103.184.104  1
10.103.190.81   53
10.103.63.29    1
10.104.73.51    1
10.105.160.183  1
10.108.91.151   1
10.109.21.76    1
10.11.131.40    1
10.111.71.20    8
10.112.227.184  6
10.114.74.30    1
10.115.118.78   1
10.117.224.230  1
10.117.76.22    12
10.118.19.97    1
10.118.250.30   7
10.119.117.132  23
10.119.33.245   1
10.119.74.120   1
```

GUI Output-