Assignment6: 8 Subtask1

Write a Map Reduce program that takes the output of Task 5 as input, and produces output which is sorted on the total units sold.

You may use a single reducer for the sorting.

Use Sequence File formats as an output for Task 5 and as input for this Task for this.

[acadgild@localhost Appasaheb]$ hadoop jar Assignment6.jar mapreduce.assignment.task8.subtask1.Task8\_1 /user/acadgild/hadoop/assignment/s4/task5-output /user/acadgild/hadoop/assignment/s4/task8\_11-output

17/06/30 22:13:32 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

17/06/30 22:13:38 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032

17/06/30 22:13:43 WARN mapreduce.JobSubmitter: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.

17/06/30 22:13:47 INFO input.FileInputFormat: Total input paths to process : 1

17/06/30 22:13:48 INFO mapreduce.JobSubmitter: number of splits:1

17/06/30 22:13:50 INFO mapreduce.JobSubmitter: Submitting tokens for job: job\_1498839862600\_0001

17/06/30 22:13:53 INFO impl.YarnClientImpl: Submitted application application\_1498839862600\_0001

17/06/30 22:13:54 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application\_1498839862600\_0001/

17/06/30 22:13:54 INFO mapreduce.Job: Running job: job\_1498839862600\_0001

17/06/30 22:15:02 INFO mapreduce.Job: Job job\_1498839862600\_0001 running in uber mode : false

17/06/30 22:15:02 INFO mapreduce.Job: map 0% reduce 0%

17/06/30 22:15:54 INFO mapreduce.Job: map 100% reduce 0%

17/06/30 22:16:50 INFO mapreduce.Job: map 100% reduce 67%

17/06/30 22:16:53 INFO mapreduce.Job: map 100% reduce 100%

17/06/30 22:16:58 INFO mapreduce.Job: Job job\_1498839862600\_0001 completed successfully

17/06/30 22:16:59 INFO mapreduce.Job: Counters: 49

File System Counters

FILE: Number of bytes read=85

FILE: Number of bytes written=213561

FILE: Number of read operations=0

FILE: Number of large read operations=0

FILE: Number of write operations=0

HDFS: Number of bytes read=190

HDFS: Number of bytes written=200

HDFS: Number of read operations=6

HDFS: Number of large read operations=0

HDFS: Number of write operations=2

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)=48142

Total time spent by all reduces in occupied slots (ms)=52855

Total time spent by all map tasks (ms)=48142

Total time spent by all reduce tasks (ms)=52855

Total vcore-seconds taken by all map tasks=48142

Total vcore-seconds taken by all reduce tasks=52855

Total megabyte-seconds taken by all map tasks=49297408

Total megabyte-seconds taken by all reduce tasks=54123520

Map-Reduce Framework

Map input records=6

Map output records=6

Map output bytes=67

Map output materialized bytes=85

Input split bytes=147

Combine input records=6

Combine output records=6

Reduce input groups=6

Reduce shuffle bytes=85

Reduce input records=6

Reduce output records=6

Spilled Records=12

Shuffled Maps =1

Failed Shuffles=0

Merged Map outputs=1

GC time elapsed (ms)=1066

CPU time spent (ms)=7220

Physical memory (bytes) snapshot=268808192

Virtual memory (bytes) snapshot=4116287488

Total committed heap usage (bytes)=137498624

Shuffle Errors

BAD\_ID=0

CONNECTION=0

IO\_ERROR=0

WRONG\_LENGTH=0

WRONG\_MAP=0

WRONG\_REDUCE=0

File Input Format Counters

Bytes Read=43

File Output Format Counters

Bytes Written=200

[acadgild@localhost Appasaheb]$ hadoop fs -ls /user/acadgild/hadoop/assignment/s4/task8\_11-output

17/06/30 22:17:42 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

Found 2 items

-rw-r--r-- 1 acadgild supergroup 0 2017-06-30 22:16 /user/acadgild/hadoop/assignment/s4/task8\_11-output/\_SUCCESS

-rw-r--r-- 1 acadgild supergroup 200 2017-06-30 22:16 /user/acadgild/hadoop/assignment/s4/task8\_11-output/part-r-00000

[acadgild@localhost Appasaheb]$ hadoop fs -cat /user/acadgild/hadoop/assignment/s4/task8\_11-output/part-r-00000

17/06/30 22:18:31 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

SEQorg.apache.hadoop.io.Text org.apache.hadoop.io.IntWritable▒d▒▒▒▒s6▒b▒a▒▒▒▒

Akai 1

Lava 3 NA 1

Onida 4

Samsung 7

Assignment6 : Task8 Subtask2

[acadgild@localhost Appasaheb]$ hadoop jar Assignment6.jar mapreduce.assignment.task8.subtask2.Task8\_2 /user/acadgild/hadoop/assignment/s4/task8\_1-output /user/acadgild/hadoop/assignment/s4/task8\_2-output

17/06/30 23:23:52 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

17/06/30 23:23:57 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032

17/06/30 23:24:02 WARN mapreduce.JobSubmitter: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.

17/06/30 23:24:03 INFO input.FileInputFormat: Total input paths to process : 1

17/06/30 23:24:03 INFO mapreduce.JobSubmitter: number of splits:1

17/06/30 23:24:04 INFO mapreduce.JobSubmitter: Submitting tokens for job: job\_1498839862600\_0003

17/06/30 23:24:06 INFO impl.YarnClientImpl: Submitted application application\_1498839862600\_0003

17/06/30 23:24:06 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application\_1498839862600\_0003/

17/06/30 23:24:06 INFO mapreduce.Job: Running job: job\_1498839862600\_0003

17/06/30 23:24:44 INFO mapreduce.Job: Job job\_1498839862600\_0003 running in uber mode : false

17/06/30 23:24:44 INFO mapreduce.Job: map 0% reduce 0%

17/06/30 23:25:16 INFO mapreduce.Job: map 100% reduce 0%

17/06/30 23:25:46 INFO mapreduce.Job: map 100% reduce 100%

17/06/30 23:25:48 INFO mapreduce.Job: Job job\_1498839862600\_0003 completed successfully

17/06/30 23:25:49 INFO mapreduce.Job: Counters: 49

File System Counters

FILE: Number of bytes read=85

FILE: Number of bytes written=213191

FILE: Number of read operations=0

FILE: Number of large read operations=0

FILE: Number of write operations=0

HDFS: Number of bytes read=349

HDFS: Number of bytes written=55

HDFS: Number of read operations=7

HDFS: Number of large read operations=0

HDFS: Number of write operations=2

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)=27186

Total time spent by all reduces in occupied slots (ms)=27272

Total time spent by all map tasks (ms)=27186

Total time spent by all reduce tasks (ms)=27272

Total vcore-seconds taken by all map tasks=27186

Total vcore-seconds taken by all reduce tasks=27272

Total megabyte-seconds taken by all map tasks=27838464

Total megabyte-seconds taken by all reduce tasks=27926528

Map-Reduce Framework

Map input records=6

Map output records=6

Map output bytes=67

Map output materialized bytes=85

Input split bytes=149

Combine input records=0

Combine output records=0

Reduce input groups=1

Reduce shuffle bytes=85

Reduce input records=6

Reduce output records=6

Spilled Records=12

Shuffled Maps =1

Failed Shuffles=0

Merged Map outputs=1

GC time elapsed (ms)=908

CPU time spent (ms)=5740

Physical memory (bytes) snapshot=271769600

Virtual memory (bytes) snapshot=4114026496

Total committed heap usage (bytes)=137498624

Shuffle Errors

BAD\_ID=0

CONNECTION=0

IO\_ERROR=0

WRONG\_LENGTH=0

WRONG\_MAP=0

WRONG\_REDUCE=0

File Input Format Counters

Bytes Read=200

File Output Format Counters

Bytes Written=55

[acadgild@localhost Appasaheb]$ hadoop fs -cat /user/acadgild/hadoop/assignment/s4/task8\_2-output/\*

17/06/30 23:26:31 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

Zen 2 1

Samsung 7 1

Onida 4 1

NA 1 1

Lava 3 1

Akai 1 1

[acadgild@localhost Appasaheb]$

Assignmnet6: Task9. Enhance the Map Reduce program of Task 8 to use multiple reducers for sorting.

The driver should accept three additional values: the minimum units sold, the maximum units sold and number of reducers to use.

Use units sold as key and company as value.

Write a custom partitioner to divide the keys on the basis of range.

Take minimum to be 0 and maximum to be 10. Divide them across 2 reducers.

Assignment6: Task9:

**9. Enhance the Map Reduce program of Task 8 to use multiple reducers for sorting.**

**The driver should accept three additional values: the minimum units sold, the maximum units sold and number of reducers to use.**

**Use units sold as key and company as value.**

**Write a custom partitioner to divide the keys on the basis of range.**

**Take minimum to be 0 and maximum to be 10. Divide them across 2 reducers.**

[acadgild@localhost Appasaheb]$ hadoop jar Assignment6.jar mapreduce.assignment.task9.Task9 /user/acadgild/hadoop/assignment/s4/task8\_1-output /user/acadgild/hadoop/assignment/s4/task9-output

17/06/30 23:31:36 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

17/06/30 23:31:41 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032

17/06/30 23:31:45 WARN mapreduce.JobSubmitter: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.

17/06/30 23:31:47 INFO input.FileInputFormat: Total input paths to process : 1

17/06/30 23:31:47 INFO mapreduce.JobSubmitter: number of splits:1

17/06/30 23:31:48 INFO mapreduce.JobSubmitter: Submitting tokens for job: job\_1498839862600\_0004

17/06/30 23:31:50 INFO impl.YarnClientImpl: Submitted application application\_1498839862600\_0004

17/06/30 23:31:50 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application\_1498839862600\_0004/

17/06/30 23:31:50 INFO mapreduce.Job: Running job: job\_1498839862600\_0004

17/06/30 23:32:25 INFO mapreduce.Job: Job job\_1498839862600\_0004 running in uber mode : false

17/06/30 23:32:25 INFO mapreduce.Job: map 0% reduce 0%

17/06/30 23:32:52 INFO mapreduce.Job: map 100% reduce 0%

17/06/30 23:33:46 INFO mapreduce.Job: map 100% reduce 100%

17/06/30 23:33:51 INFO mapreduce.Job: Job job\_1498839862600\_0004 completed successfully

17/06/30 23:33:52 INFO mapreduce.Job: Counters: 49

File System Counters

FILE: Number of bytes read=91

FILE: Number of bytes written=320172

FILE: Number of read operations=0

FILE: Number of large read operations=0

FILE: Number of write operations=0

HDFS: Number of bytes read=349

HDFS: Number of bytes written=55

HDFS: Number of read operations=10

HDFS: Number of large read operations=0

HDFS: Number of write operations=4

Job Counters

Launched map tasks=1

Launched reduce tasks=2

Data-local map tasks=1

Total time spent by all maps in occupied slots (ms)=22083

Total time spent by all reduces in occupied slots (ms)=106735

Total time spent by all map tasks (ms)=22083

Total time spent by all reduce tasks (ms)=106735

Total vcore-seconds taken by all map tasks=22083

Total vcore-seconds taken by all reduce tasks=106735

Total megabyte-seconds taken by all map tasks=22612992

Total megabyte-seconds taken by all reduce tasks=109296640

Map-Reduce Framework

Map input records=6

Map output records=6

Map output bytes=67

Map output materialized bytes=91

Input split bytes=149

Combine input records=0

Combine output records=0

Reduce input groups=1

Reduce shuffle bytes=91

Reduce input records=6

Reduce output records=6

Spilled Records=12

Shuffled Maps =2

Failed Shuffles=0

Merged Map outputs=2

GC time elapsed (ms)=2076

CPU time spent (ms)=8300

Physical memory (bytes) snapshot=358514688

Virtual memory (bytes) snapshot=6174797824

Total committed heap usage (bytes)=153817088

Shuffle Errors

BAD\_ID=0

CONNECTION=0

IO\_ERROR=0

WRONG\_LENGTH=0

WRONG\_MAP=0

WRONG\_REDUCE=0

File Input Format Counters

Bytes Read=200

File Output Format Counters

Bytes Written=55

[acadgild@localhost Appasaheb]$ hadoop fs -cat /user/acadgild/hadoop/assignment/s4/task9-output/part-r-00000

17/06/30 23:34:35 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

1 Zen 2

1 Samsung 7

1 Onida 4

1 NA 1

1 Lava 3

1 Akai 1

[acadgild@localhost Appasaheb]$ hadoop fs -cat /user/acadgild/hadoop/assignment/s4/task9-output/part-r-00001

17/06/30 23:34:59 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

[acadgild@localhost Appasaheb]$

Assignment6 : Task10 Subtask 1:

[acadgild@localhost Appasaheb]$ hadoop jar Assignment6.jar mapreduce.assignment.task10.subtask1.Task10\_1 /user/acadgild/hadoop/Assignment/s4/dataset.txt /user/acadgild/hadoop/assignment/s4/task10\_1-output

17/07/02 11:49:49 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

17/07/02 11:49:54 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032

17/07/02 11:49:58 WARN mapreduce.JobSubmitter: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.

17/07/02 11:50:00 INFO input.FileInputFormat: Total input paths to process : 1

17/07/02 11:50:00 INFO mapreduce.JobSubmitter: number of splits:1

17/07/02 11:50:01 INFO mapreduce.JobSubmitter: Submitting tokens for job: job\_1498972688247\_0003

17/07/02 11:50:03 INFO impl.YarnClientImpl: Submitted application application\_1498972688247\_0003

17/07/02 11:50:04 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application\_1498972688247\_0003/

17/07/02 11:50:04 INFO mapreduce.Job: Running job: job\_1498972688247\_0003

17/07/02 11:50:39 INFO mapreduce.Job: Job job\_1498972688247\_0003 running in uber mode : false

17/07/02 11:50:39 INFO mapreduce.Job: map 0% reduce 0%

17/07/02 11:51:13 INFO mapreduce.Job: map 100% reduce 0%

17/07/02 11:51:44 INFO mapreduce.Job: map 100% reduce 100%

17/07/02 11:51:47 INFO mapreduce.Job: Job job\_1498972688247\_0003 completed successfully

17/07/02 11:51:48 INFO mapreduce.Job: Counters: 49

File System Counters

FILE: Number of bytes read=425

FILE: Number of bytes written=213867

FILE: Number of read operations=0

FILE: Number of large read operations=0

FILE: Number of write operations=0

HDFS: Number of bytes read=866

HDFS: Number of bytes written=165

HDFS: Number of read operations=6

HDFS: Number of large read operations=0

HDFS: Number of write operations=2

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)=29620

Total time spent by all reduces in occupied slots (ms)=27547

Total time spent by all map tasks (ms)=29620

Total time spent by all reduce tasks (ms)=27547

Total vcore-seconds taken by all map tasks=29620

Total vcore-seconds taken by all reduce tasks=27547

Total megabyte-seconds taken by all map tasks=30330880

Total megabyte-seconds taken by all reduce tasks=28208128

Map-Reduce Framework

Map input records=18

Map output records=18

Map output bytes=383

Map output materialized bytes=425

Input split bytes=133

Combine input records=0

Combine output records=0

Reduce input groups=9

Reduce shuffle bytes=425

Reduce input records=18

Reduce output records=9

Spilled Records=36

Shuffled Maps =1

Failed Shuffles=0

Merged Map outputs=1

GC time elapsed (ms)=778

CPU time spent (ms)=5780

Physical memory (bytes) snapshot=270360576

Virtual memory (bytes) snapshot=4116148224

Total committed heap usage (bytes)=137498624

Shuffle Errors

BAD\_ID=0

CONNECTION=0

IO\_ERROR=0

WRONG\_LENGTH=0

WRONG\_MAP=0

WRONG\_REDUCE=0

File Input Format Counters

Bytes Read=733

File Output Format Counters

Bytes Written=165

[acadgild@localhost Appasaheb]$ hadoop fs -ls

17/07/02 11:54:38 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

Found 5 items

drwxr-xr-x - acadgild supergroup 0 2017-06-18 08:35 Appasaheb

drwxr-xr-x - acadgild supergroup 0 2015-11-20 11:46 Pictures

drwxr-xr-x - acadgild supergroup 0 2017-06-21 21:53 hadoop

drwxr-xr-x - acadgild supergroup 0 2015-11-17 02:03 oozie-acad

drwxr-xr-x - acadgild supergroup 0 2015-11-17 02:00 share

[acadgild@localhost Appasaheb]$

[acadgild@localhost Appasaheb]$ ls

Assignment3.jar Assignment5.jar Assignments-Solutions.txt mapreduce.jar

Assignment4.jar Assignment6.jar java-interfaces.jar Text22

[acadgild@localhost Appasaheb]$ clear

[acadgild@localhost Appasaheb]$ hadoop fs -ls /user/acadgild/hadoop/assignment/s4/task10\_1-output

17/07/02 11:55:30 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

Found 2 items

-rw-r--r-- 1 acadgild supergroup 0 2017-07-02 11:51 /user/acadgild/hadoop/assignment/s4/task10\_1-output/\_SUCCESS

-rw-r--r-- 1 acadgild supergroup 165 2017-07-02 11:51 /user/acadgild/hadoop/assignment/s4/task10\_1-output/part-r-00000

[acadgild@localhost Appasaheb]$ hadoop fs -cat /user/acadgild/hadoop/assignment/s4/task10\_1-output

17/07/02 11:55:55 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

cat: `/user/acadgild/hadoop/assignment/s4/task10\_1-output': Is a directory

[acadgild@localhost Appasaheb]$ hadoop fs -cat /user/acadgild/hadoop/assignment/s4/task10\_1-output/part-r-00000

17/07/02 11:56:27 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

Akai Kerala 1

Lava Assam 3

NA Uttar Pradesh 1

Onida Kerala 1

Onida Uttar Pradesh 3

Samsung Kerala 1

Samsung Madhya Pradesh 3

Samsung Maharashtra 3

Zen Maharashtra 2

**Assignment 6 : Task10 Subtask2**

**10. Enhance the Task 8 to calculate the top 3 state-wise sales for each company.**

**You may use a multiple reducers for this activity.**

[acadgild@localhost Appasaheb]$ hadoop jar Assignment6.jar mapreduce.assignment.task10.subtask2.Task10\_2 /user/acadgild/hadoop/assignment/s4/task10\_1-output /user/acadgild/hadoop/assignment/s4/task10\_2-output

17/07/02 12:33:48 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

17/07/02 12:33:53 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032

17/07/02 12:33:58 WARN mapreduce.JobSubmitter: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.

17/07/02 12:34:00 INFO input.FileInputFormat: Total input paths to process : 1

17/07/02 12:34:00 INFO mapreduce.JobSubmitter: number of splits:1

17/07/02 12:34:01 INFO mapreduce.JobSubmitter: Submitting tokens for job: job\_1498972688247\_0005

17/07/02 12:34:03 INFO impl.YarnClientImpl: Submitted application application\_1498972688247\_0005

17/07/02 12:34:03 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application\_1498972688247\_0005/

17/07/02 12:34:03 INFO mapreduce.Job: Running job: job\_1498972688247\_0005

17/07/02 12:34:34 INFO mapreduce.Job: Job job\_1498972688247\_0005 running in uber mode : false

17/07/02 12:34:35 INFO mapreduce.Job: map 0% reduce 0%

17/07/02 12:35:02 INFO mapreduce.Job: map 100% reduce 0%

17/07/02 12:35:49 INFO mapreduce.Job: map 100% reduce 100%

17/07/02 12:35:51 INFO mapreduce.Job: Job job\_1498972688247\_0005 completed successfully

17/07/02 12:35:52 INFO mapreduce.Job: Counters: 49

File System Counters

FILE: Number of bytes read=216

FILE: Number of bytes written=213517

FILE: Number of read operations=0

FILE: Number of large read operations=0

FILE: Number of write operations=0

HDFS: Number of bytes read=315

HDFS: Number of bytes written=68

HDFS: Number of read operations=6

HDFS: Number of large read operations=0

HDFS: Number of write operations=2

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)=28640

Total time spent by all reduces in occupied slots (ms)=37736

Total time spent by all map tasks (ms)=28640

Total time spent by all reduce tasks (ms)=37736

Total vcore-seconds taken by all map tasks=28640

Total vcore-seconds taken by all reduce tasks=37736

Total megabyte-seconds taken by all map tasks=29327360

Total megabyte-seconds taken by all reduce tasks=38641664

Map-Reduce Framework

Map input records=9

Map output records=9

Map output bytes=192

Map output materialized bytes=216

Input split bytes=150

Combine input records=0

Combine output records=0

Reduce input groups=6

Reduce shuffle bytes=216

Reduce input records=9

Reduce output records=4

Spilled Records=18

Shuffled Maps =1

Failed Shuffles=0

Merged Map outputs=1

GC time elapsed (ms)=879

CPU time spent (ms)=5780

Physical memory (bytes) snapshot=270868480

Virtual memory (bytes) snapshot=4113899520

Total committed heap usage (bytes)=137498624

Shuffle Errors

BAD\_ID=0

CONNECTION=0

IO\_ERROR=0

WRONG\_LENGTH=0

WRONG\_MAP=0

WRONG\_REDUCE=0

File Input Format Counters

Bytes Read=165

File Output Format Counters

Bytes Written=68

[acadgild@localhost Appasaheb]$ hadoop fs -cat /user/acadgild/hadoop/assignment/s4/task10\_2-output/part-r-00000 17/07/02 12:36:23 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

Akai Kerala 1

Lava Assam 3

NA Uttar Pradesh 1

Onida Uttar Pradesh 3

[acadgild@localhost Appasaheb]$