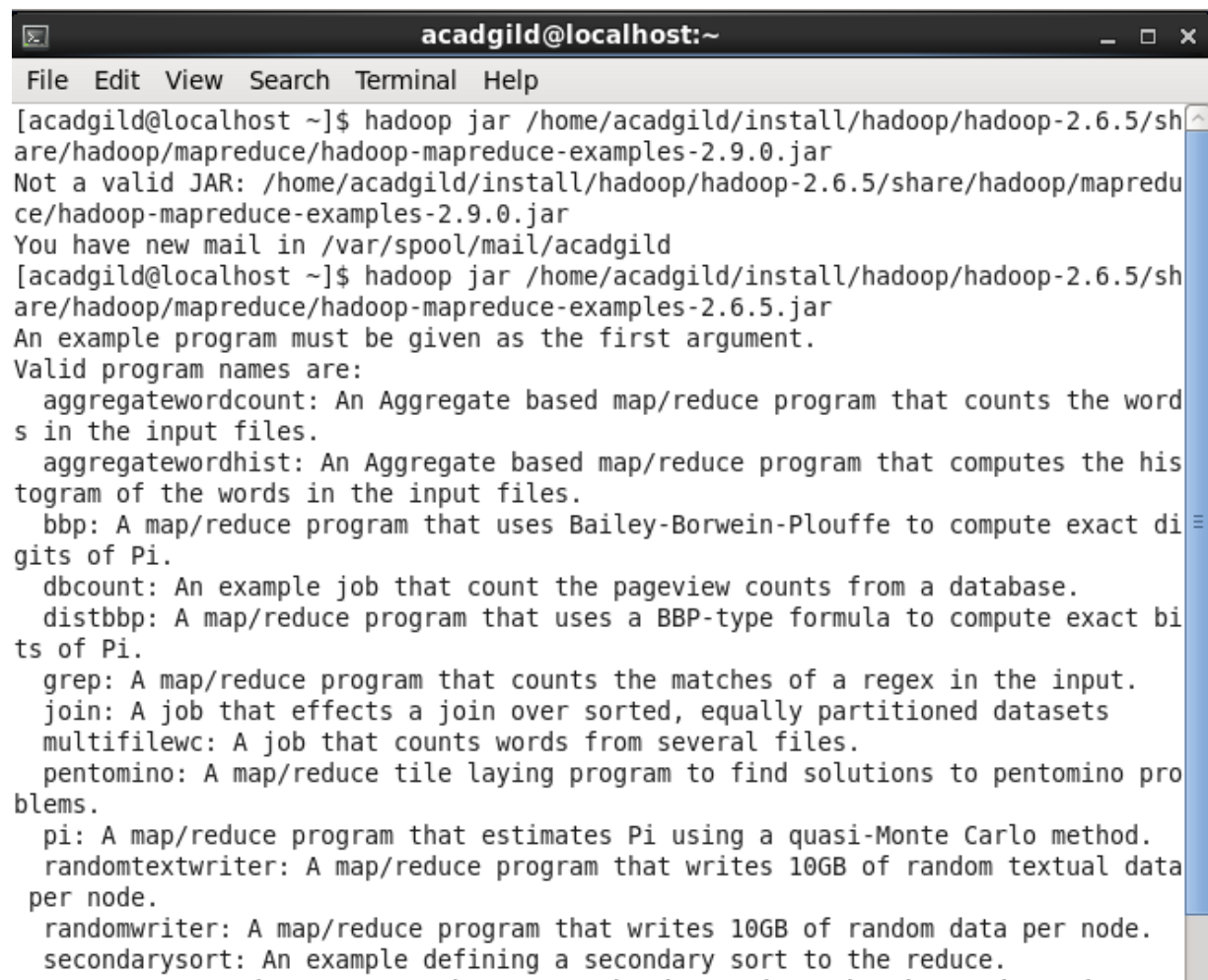


Task 1: Execute Word Median , Word Mean , Word Standard Deviation programs using hadoop-mapreduce-examples-2.9.0.jar file present in your AcadGild VM.

Ans) when tried to find class files in hadoop-mapreduce-examples-2.9.0.jar file it is throwing an error “Not a valid jar”. However, could find all the above classes in hadoop-mapreduce-example-2.6.5.jar file. Below are the list of classes that are present in hadoop-mapreduce-example jar2.6.5.jar file,which includes WordMean, WordMedian, WordStandard deviation files also. Please find the below screenshot.



```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ hadoop jar /home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce/hadoop-mapreduce-examples-2.9.0.jar  
Not a valid JAR: /home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce/hadoop-mapreduce-examples-2.9.0.jar  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$ hadoop jar /home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce/hadoop-mapreduce-examples-2.6.5.jar  
An example program must be given as the first argument.  
Valid program names are:  
  aggregatwordcount: An Aggregate based map/reduce program that counts the words in the input files.  
  aggregatwordhist: An Aggregate based map/reduce program that computes the histogram of the words in the input files.  
  bbp: A map/reduce program that uses Bailey-Borwein-Plouffe to compute exact digits of Pi.  
  dbcount: An example job that count the pageview counts from a database.  
  distbbp: A map/reduce program that uses a BBP-type formula to compute exact bits of Pi.  
  grep: A map/reduce program that counts the matches of a regex in the input.  
  join: A job that effects a join over sorted, equally partitioned datasets  
  multifilewc: A job that counts words from several files.  
  pentomino: A map/reduce tile laying program to find solutions to pentomino problems.  
  pi: A map/reduce program that estimates Pi using a quasi-Monte Carlo method.  
  randomtextwriter: A map/reduce program that writes 10GB of random textual data per node.  
  randomwriter: A map/reduce program that writes 10GB of random data per node.  
  secondarysort: An example defining a secondary sort to the reduce.
```

```
acadgild@localhost:~
File Edit View Search Terminal Help
Not a valid JAR: /home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce/hadoop-mapreduce-examples-2.9.0.jar
[acadgild@localhost ~]$ hadoop fs -cat /sample.txt
18/07/20 23:44:06 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
hi hello gud afternoon:::::::::::::::::WQ:WQ
Hi, Hello Good morning everyone.
Have a pleasant day
Practice makes man perfect.
Everyone have their own pace.
I may not win today but will some day.
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop jar /home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce/hadoop-mapreduce-examples-2.6.5.jar wordmean /sample.txt /output1
18/07/20 23:44:57 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
18/07/20 23:44:58 INFO client.RMPProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
18/07/20 23:45:02 INFO input.FileInputFormat: Total input paths to process : 1
18/07/20 23:45:02 INFO mapreduce.JobSubmitter: number of splits:1
18/07/20 23:45:03 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1532081133024_0007
18/07/20 23:45:04 INFO impl.YarnClientImpl: Submitted application application_1532081133024_0007
18/07/20 23:45:04 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1532081133024_0007/
18/07/20 23:45:04 INFO mapreduce.Job: Running job: job_1532081133024_0007
18/07/20 23:45:21 INFO mapreduce.Job: Job job_1532081133024_0007 running in uber mode : false
18/07/20 23:45:21 INFO mapreduce.Job:  map 0% reduce 0%
18/07/20 23:45:31 INFO mapreduce.Job:  map 100% reduce 0%
18/07/20 23:45:40 INFO mapreduce.Job:  map 100% reduce 100%
18/07/20 23:45:40 INFO mapreduce.Job: Job job_1532081133024_0007 completed successfully
```

Output: output of the operation is stored in part-r-00000

```
acadgild@localhost:~
File Edit View Search Terminal Help
[acadgild@localhost ~]$ hadoop fs -ls /output1
18/07/20 23:50:57 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 2018-07-20 23:45 /output1/_SUCCESS
-rw-r--r-- 1 acadgild supergroup 20 2018-07-20 23:45 /output1/part-r-000000
[acadgild@localhost ~]$ hadoop fs -cat /output1/part-r-000000
18/07/20 23:51:29 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
count 31
length 164
[acadgild@localhost ~]$
```

```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ hadoop jar /home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce/hadoop-mapreduce-examples-2.6.5.jar wordmedian /sample.txt /output2  
18/07/20 23:52:59 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable  
18/07/20 23:53:00 INFO client.RMPProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032  
18/07/20 23:53:02 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.  
18/07/20 23:53:02 INFO input.FileInputFormat: Total input paths to process : 1  
18/07/20 23:53:02 INFO mapreduce.JobSubmitter: number of splits:1  
18/07/20 23:53:02 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1532081133024_0008  
18/07/20 23:53:03 INFO impl.YarnClientImpl: Submitted application application_1532081133024_0008  
18/07/20 23:53:03 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1532081133024_0008/  
18/07/20 23:53:03 INFO mapreduce.Job: Running job: job_1532081133024_0008  
18/07/20 23:53:12 INFO mapreduce.Job: Job job_1532081133024_0008 running in uber mode : false  
18/07/20 23:53:12 INFO mapreduce.Job:  map 0% reduce 0%  
18/07/20 23:53:19 INFO mapreduce.Job:  map 100% reduce 0%  
18/07/20 23:53:27 INFO mapreduce.Job:  map 100% reduce 100%
```

Output: output of the operation is stored in part-r-00000

```
-----  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$ hadoop fs -ls /output2  
18/07/20 23:53:44 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 2018-07-20 23:53 /output2/_SUCCESS  
-rw-r--r-- 1 acadgild supergroup 37 2018-07-20 23:53 /output2/part-r-00000  
[acadgild@localhost ~]$ hadoop fs -cat /output2/part-r-00000  
18/07/20 23:54:17 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable  
1      2  
2      1  
3      9  
4      6  
5      6  
7      1  
8      4  
9      1  
31     1  
[acadgild@localhost ~]$
```

Performed Standard deviation class on sample text and stored it in output 3

```
acadgild@localhost:~  
File Edit View Search Terminal Help  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$ hadoop jar /home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce/hadoop-mapreduce-examples-2.6.5.jar wordstandarddeviation /sample.txt /output3  
18/07/20 23:57:57 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable  
18/07/20 23:57:58 INFO client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032  
18/07/20 23:57:59 INFO input.FileInputFormat: Total input paths to process : 1  
18/07/20 23:57:59 INFO mapreduce.JobSubmitter: number of splits:1  
18/07/20 23:57:59 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1532081133024_0009  
18/07/20 23:58:00 INFO impl.YarnClientImpl: Submitted application application_1532081133024_0009  
18/07/20 23:58:00 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1532081133024_0009/  
18/07/20 23:58:00 INFO mapreduce.Job: Running job: job_1532081133024_0009  
18/07/20 23:58:09 INFO mapreduce.Job: Job job_1532081133024_0009 running in uber mode : false  
18/07/20 23:58:09 INFO mapreduce.Job:  map 0% reduce 0%  
18/07/20 23:58:16 INFO mapreduce.Job:  map 100% reduce 0%  
18/07/20 23:58:24 INFO mapreduce.Job:  map 100% reduce 100%  
18/07/20 23:58:25 INFO mapreduce.Job: Job job_1532081133024_0009 completed successfully
```

Output : output is found out by part-r-00000

```
The standard deviation is: 5.119183077387709  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$ hadoop fs -ls /output3  
18/07/20 23:58:38 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 2018-07-20 23:58 /output3/_SUCCESS  
-rw-r--r--  1 acadgild supergroup       32 2018-07-20 23:58 /output3/part-r-00000  
[acadgild@localhost ~]$ hadoop fs -cat /output3/part-r-00000  
18/07/20 23:59:07 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable  
count    31  
length   164  
square   1680  
[acadgild@localhost ~]$
```

Task2:

We have a dataset of sales of different TV sets across different locations.

Records look like: Samsung|Optima|14|Madhya Pradesh|132401|14200

The fields are arranged like:

Company Name|Product Name|Size in inches|State|Pin Code|Price

There are some invalid records which contain 'NA' in either Company Name or Product Name.

Task 1.1

Write a Map Reduce program to filter out the invalid records. Map only job will fit for this context.

Ans)

```
import java.io.IOException;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.io.LongWritable;
import org.apache.hadoop.io.NullWritable;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapreduce.Job;
import org.apache.hadoop.mapreduce.Mapper;
import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;
import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;
```

```
public class FilterRows {

    public static void main(String[] args) throws
IOException, ClassNotFoundException, InterruptedException {
        Configuration conf= new Configuration();
        Job job = new Job(conf,"FilterRows");
        job.setJarByClass(FilterRows.class);
        job.setNumReduceTasks(0);
        job.setMapperClass(Map.class);
        job.setMapOutputKeyClass(Text.class);
        job.setMapOutputValueClass(NullWritable.class);
        FileInputFormat.addInputPath(job,new Path(args[0]));
        FileOutputFormat.setOutputPath(job,new Path(args[1]));
        System.exit(job.waitForCompletion(true)?0:1);
    }
}
```

```
public static class Map extends Mapper<LongWritable, Text, Text, NullWritable>{
    protected void map(LongWritable key, Text value, Context context)
        throws IOException ,InterruptedException {

        String[] lineArray = value.toString().split("[|]");
        String company = lineArray[0];
        String product= lineArray[1];
        if(!(company.equals("NA"))&& !(product.equals("NA"))){
```



```
context.write(value, null);
```

```
}
```

```
}
```

```
}
```

```
}
```

```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ hadoop jar /home/acadgild/Television.jar FilterRows /use  
r/acadgild/television.txt /user/acadgild/Filterrowsoutput1  
18/08/01 15:30:10 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
18/08/01 15:30:11 INFO client.RMProxy: Connecting to ResourceManager at localhos  
t/127.0.0.1:8032  
18/08/01 15:30:12 WARN mapreduce.JobResourceUploader: Hadoop command-line option  
parsing not performed. Implement the Tool interface and execute your applicatio  
n with ToolRunner to remedy this.  
18/08/01 15:30:13 INFO input.FileInputFormat: Total input paths to process : 1  
18/08/01 15:30:13 INFO mapreduce.JobSubmitter: number of splits:1  
18/08/01 15:30:13 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_15  
33116030553_0002  
18/08/01 15:30:14 INFO impl.YarnClientImpl: Submitted application application_15  
33116030553_0002  
18/08/01 15:30:14 INFO mapreduce.Job: The url to track the job: http://localhost  
:8088/proxy/application_1533116030553_0002/  
18/08/01 15:30:14 INFO mapreduce.Job: Running job: job_1533116030553_0002  
18/08/01 15:30:23 INFO mapreduce.Job: Job job_1533116030553_0002 running in uber  
mode : false  
18/08/01 15:30:23 INFO mapreduce.Job: map 0% reduce 0%  
18/08/01 15:30:31 INFO mapreduce.Job: map 100% reduce 0%  
18/08/01 15:30:32 INFO mapreduce.Job: Job job_1533116030553_0002 completed succe  
ssfully  
18/08/01 15:30:33 INFO mapreduce.Job: Counters: 30  
File System Counters  
FILE: Number of bytes read=0  
FILE: Number of bytes written=106998  
FILE: Number of read operations=0  
FILE: Number of large read operations=0  
FILE: Number of write operations=0  
HDFS: Number of bytes read=848
```

```
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ hdfs dfs -ls /user/acadgild/Filterrowsoutput1  
18/08/01 15:31:26 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
Found 2 items  
-rw-r--r-- 1 acadgild supergroup 0 2018-08-01 15:30 /user/acadgild/Fi  
lterrowsoutput1/ SUCCESS  
-rw-r--r-- 1 acadgild supergroup 646 2018-08-01 15:30 /user/acadgild/Fi  
lterrowsoutput1/part-m-000000  
[acadgild@localhost ~]$ hdfs dfs -cat /user/acadgild/Filterrowsoutput1/part-m-00  
0000  
18/08/01 15:31:44 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
Samsung|Optima|14|Madhya Pradesh|132401|14200  
Onida|Lucid|18|Uttar Pradesh|232401|16200  
Akai|Decent|16|Kerala|922401|12200  
Lava|Attention|20|Assam|454601|24200  
Zen|Super|14|Maharashtra|619082|9200  
Samsung|Optima|14|Madhya Pradesh|132401|14200  
Onida|Lucid|18|Uttar Pradesh|232401|16200  
Onida|Decent|14|Uttar Pradesh|232401|16200  
Lava|Attention|20|Assam|454601|24200  
Zen|Super|14|Maharashtra|619082|9200  
Samsung|Optima|14|Madhya Pradesh|132401|14200  
Samsung|Decent|16|Kerala|922401|12200  
Lava|Attention|20|Assam|454601|24200  
Samsung|Super|14|Maharashtra|619082|9200  
Samsung|Super|14|Maharashtra|619082|9200  
Samsung|Super|14|Maharashtra|619082|9200  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$ █
```

Task 1.2

Write a Map Reduce program to calculate the total units sold for each Company.

```
Ans: import java.io.IOException;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.io.LongWritable;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapreduce.Job;
import org.apache.hadoop.mapreduce.Mapper;
import org.apache.hadoop.mapreduce.Reducer;
import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;
import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;

public class TotalUnitsSold {
    public static void main(String[] args) throws IOException,
ClassNotFoundException, InterruptedException {
        Configuration conf= new Configuration();
        Job job = new Job(conf,"TotalUnits") ;
        job.setJarByClass(TotalUnitsSold.class);
        job.setMapperClass(Map.class);
        job.setReducerClass(Reduce.class);
        job.setOutputKeyClass(Text.class);
        job.setOutputValueClass(IntWritable.class);
        FileInputFormat.addInputPath(job,new Path(args[0]));
        FileOutputFormat.setOutputPath(job,new Path(args[1]));
        System.exit(job.waitForCompletion(true)?0:1);
    }

    public static class Map extends Mapper<LongWritable, Text, Text,
IntWritable>{
        protected void map(LongWritable key, Text value, Context
context) throws IOException ,InterruptedException {
            String[] lineArray = value.toString().split("[|]");
            String company = lineArray[0];
            String product= lineArray[1];
            if(!(company.equals("NA"))&& !(product.equals("NA"))) {
                context.write(new Text(company), new IntWritable(1));
            }
        }
    }

    public static class Reduce extends
Reducer<Text,IntWritable,Text,IntWritable>{
        protected void reduce(Text key, Iterable<IntWritable> value,
Context context) throws IOException, InterruptedException{
            int sum=0;
            for(IntWritable val : value) {
                sum += val.get();
            }
            context.write(key,new IntWritable(sum));
        }
    }
}
```

```
acadgild@localhost:~
File Edit View Search Terminal Help
[acadgild@localhost ~]$ hadoop jar /home/acadgild/Television.jar TotalUnitsSold /user/acadgild/television.txt /user/acadgild/TotalUnitsoutput
18/08/01 15:58:09 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
18/08/01 15:58:10 INFO client.RMPProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
18/08/01 15:58:12 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.
18/08/01 15:58:12 INFO input.FileInputFormat: Total input paths to process : 1
18/08/01 15:58:12 INFO mapreduce.JobSubmitter: number of splits:1
18/08/01 15:58:12 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1533116030553_0004
18/08/01 15:58:13 INFO impl.YarnClientImpl: Submitted application application_1533116030553_0004
18/08/01 15:58:13 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1533116030553_0004/
18/08/01 15:58:13 INFO mapreduce.Job: Running job: job_1533116030553_0004
18/08/01 15:58:24 INFO mapreduce.Job: Job job_1533116030553_0004 running in uber mode : false
18/08/01 15:58:24 INFO mapreduce.Job:  map 0% reduce 0%
18/08/01 15:58:30 INFO mapreduce.Job:  map 100% reduce 0%
18/08/01 15:58:39 INFO mapreduce.Job:  map 100% reduce 100%
18/08/01 15:58:39 INFO mapreduce.Job: Job job_1533116030553_0004 completed successfully
```

```
acadgild@localhost:~
File Edit View Search Terminal Help
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hdfs dfs -ls /user/acadgild/TotalUnitsoutput
18/08/01 16:00:06 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 2018-08-01 15:58 /user/acadgild/TotalUnitsoutput/_SUCCESS
-rw-r--r--  1 acadgild supergroup        38 2018-08-01 15:58 /user/acadgild/TotalUnitsoutput/part-r-000000
[acadgild@localhost ~]$ hdfs dfs -cat /user/acadgild/TotalUnitsoutput/part-r-000000
18/08/01 16:01:12 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Akai      1
Lava      3
Onida     3
Samsung   7
Zen       2
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$
```


Task 1.3: Write a Map Reduce program to calculate the total units sold in each state for Onida company.

```
Ans: import java.io.IOException;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.io.LongWritable;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapreduce.Job;
import org.apache.hadoop.mapreduce.Mapper;
import org.apache.hadoop.mapreduce.Reducer;
import org.apache.hadoop.mapreduce.Mapper.Context;
import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;
import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;
public class OnidaUnitsSold {
    public static void main(String[] args) throws IOException,
ClassNotFoundException, InterruptedException {
        Configuration conf= new Configuration();
        Job job = new Job(conf,"TotalOnidaUnits");
        job.setJarByClass(OnidaUnitsSold.class);
        job.setMapperClass(Map.class);
        job.setReducerClass(Reduce.class);
        job.setOutputKeyClass(Text.class);
        job.setOutputValueClass(IntWritable.class);
        FileInputFormat.addInputPath(job,new Path(args[0]));
        FileOutputFormat.setOutputPath(job,new Path(args[1]));
        System.exit(job.waitForCompletion(true)?0:1);
    }

    public static class Map extends Mapper<LongWritable, Text, Text,
IntWritable>{
        protected void map(LongWritable key, Text value, Context
context) throws IOException ,InterruptedException {
            String[] lineArray = value.toString().split("[|]");
            String company = lineArray[0];
            String product= lineArray[1];
            if(company.equals("Onida")&& !(product.equals("NA"))) {

                context.write(new Text(lineArray[3]), new IntWritable(1));

            }
        }
    }

    public static class Reduce extends
Reducer<Text,IntWritable,Text,IntWritable>{
        protected void reduce(Text key, Iterable<IntWritable> value,
Context context)throws IOException, InterruptedException{
            int sum=0;
            for(IntWritable val : value) {
                sum += val.get();
            }
            context.write(key,new IntWritable(sum));
        }
    }
}
```

```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ hadoop jar /home/acadgild/Television.jar OnidaUnitsSold  
/user/acadgild/television.txt /user/acadgild/OnidaUnitsoutput  
18/08/01 15:54:25 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
18/08/01 15:54:26 INFO client.RMPProxy: Connecting to ResourceManager at localhos  
t/127.0.0.1:8032  
18/08/01 15:54:27 WARN mapreduce.JobResourceUploader: Hadoop command-line option  
parsing not performed. Implement the Tool interface and execute your applicatio  
n with ToolRunner to remedy this.  
18/08/01 15:54:28 INFO input.FileInputFormat: Total input paths to process : 1  
18/08/01 15:54:28 INFO mapreduce.JobSubmitter: number of splits:1  
18/08/01 15:54:28 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_15  
33116030553_0003  
18/08/01 15:54:28 INFO impl.YarnClientImpl: Submitted application application_15  
33116030553_0003  
18/08/01 15:54:28 INFO mapreduce.Job: The url to track the job: http://localhost  
:8088/proxy/application_1533116030553_0003/  
18/08/01 15:54:28 INFO mapreduce.Job: Running job: job_1533116030553_0003  
18/08/01 15:54:38 INFO mapreduce.Job: Job job_1533116030553_0003 running in uber  
mode : false  
18/08/01 15:54:38 INFO mapreduce.Job: map 0% reduce 0%  
18/08/01 15:54:45 INFO mapreduce.Job: map 100% reduce 0%  
18/08/01 15:54:53 INFO mapreduce.Job: map 100% reduce 100%  
18/08/01 15:54:54 INFO mapreduce.Job: Job job_1533116030553_0003 completed succe
```

```
acadgild@localhost:~  
File Edit View Search Terminal Help  
[acadgild@localhost ~]$ hdfs dfs -ls /user/acadgild/OnidaUnitsoutput  
18/08/01 15:55:49 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
Found 2 items  
-rw-r--r-- 1 acadgild supergroup 0 2018-08-01 15:54 /user/acadgild/On  
idaUnitsoutput/_SUCCESS  
-rw-r--r-- 1 acadgild supergroup 16 2018-08-01 15:54 /user/acadgild/On  
idaUnitsoutput/part-r-00000  
[acadgild@localhost ~]$ hdfs dfs -cat /user/acadgild/OnidaUnitsoutput/part-r-000  
00  
18/08/01 15:56:27 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
Uttar Pradesh 3  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$
```

