Assignment Submission- Session 4

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

Solution: For this, a jar file has been created by the name “TV_Sales_Task1.jar” . It can be run as shown in the screenshot.

```
[acadgild@localhost ~]$ hadoop jar akshat/MyMapReducePrograms/TV_Sales_Task1.jar /television.txt /TvSalesTask1_Output
18/08/26 03:37:35 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
18/08/26 03:37:36 INFO client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
18/08/26 03:37:37 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your
```

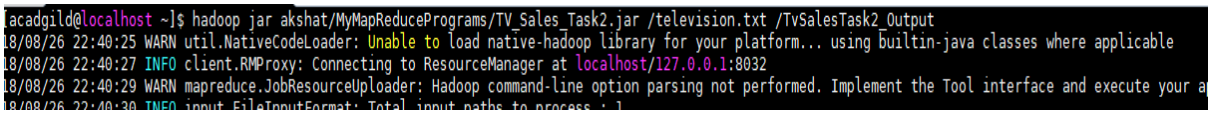
The input file -cat screenshot and output file after running job is also in the screenshot.

```
[acadgild@localhost ~]$ hadoop fs -cat /television.txt
18/08/26 03:42:41 WARN util.NativeCodeLoader: Unable to load native-hadoop lib
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
Onida|NA|16|Kerala|922401|12200
Lava|Attention|20|Assam|454601|24200
Zen|Super|14|Maharashtra|619082|9200
Samsung|Optima|14|Madhya Pradesh|132401|14200
NA|Lucid|18|Uttar Pradesh|232401|16200
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[acadgild@localhost ~]$
```

```
[acadgild@localhost ~]$ hadoop fs -cat /TvSalesTask1_Output/part-m-00000
18/08/26 03:43:40 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
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
[acadgild@localhost ~]$
```

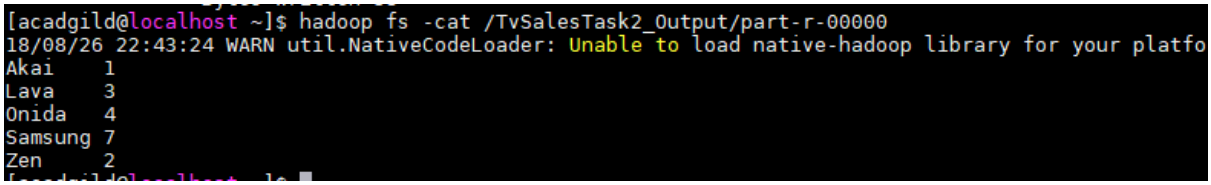
Task 2:
Write a Map Reduce program to calculate the total units sold for each Company.

Solution: For this, a jar file has been created by the name “TV_Sales_Task2.jar” . It can be run as shown in the screenshot.



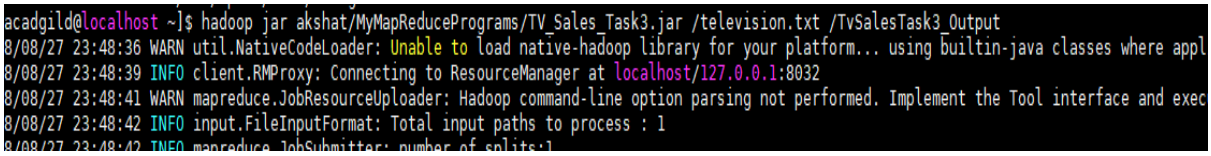
The output file -cat screenshot is below:

There were 18 entries in the input out of which, 1 record had “NA” in the company name. Hence reducer shows details combined of 17 entries.



Task 3:
Write a Map Reduce program to calculate the total units sold in each state for Onida company.

Solution: For this, a jar file has been created by the name “TV_Sales_Task3.jar” . It can be run as shown in the screenshot.



The output file -cat screenshot is below:

There were 4 entries for Onida out of which 3 sales were in Uttar Pradesh and 1 in Kerela.