

## Assignment 4.1

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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.

Uploaded the Driver(TvSurveyTask1.java), Mapper(TvSurveyTask1Mapper.java) and reducer(TvSurveyTask1Reducer.java) files separately along with code explanation.

**Output:**

```
-----  
[acadgild@localhost ~]$ hadoop fs -cat /TvSurveyTask1/part-r-00000  
18/05/11 11:20:29 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable  
Akai Decent  
Lava Attention  
Lava Attention  
Lava Attention  
Onida Decent  
Onida Lucid  
Onida Lucid  
Samsung Super  
Samsung Super  
Samsung Super  
Samsung Decent  
Samsung Optima  
Samsung Optima  
Samsung Optima  
Zen Super  
Zen Super  
You have new mail in /var/spool/mail/acadgild
```

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

Uploaded the Driver(TvSurveyTask2.java), Mapper(TvSurveyTask2Mapper.java) and reducer(TvSurveyTask2Reducer.java) files separately along with code explanation.

**Output:**

```
-----  
[acadgild@localhost ~]$ hadoop fs -cat /TvSurveyTask2/part-r-00000  
18/05/11 11:38:06 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable  
Akai 1  
Lava 3  
Onida 4  
Samsung 7  
Zen 2  
You have new mail in /var/spool/mail/acadgild
```

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

Uploaded the Driver(TvSurveyTask3.java), Mapper(TvSurveyTask3Mapper.java) and reducer(TvSurveyTask3Reducer..java) files separately along with code explanation.

**Output:**

```
-----  
[acadgild@localhost ~]$ hadoop fs -cat /TvSurveyTask3/part-r-00000  
18/05/11 11:38:54 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable  
Kerala 1  
Uttar Pradesh 3  
[acadgild@localhost ~]$
```