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:

The ScreenShots of the problem is:

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The Driver Class:

```
| Dissigns 
Project Explorer 💢 📋 👸 🗽 🔻 🗆 📋 Task3.java
          30-Days-of-Code-master
ESAPI
                                     > # com.rt.jio.Logger

    MaxandMinTempForZipCode
    maximumTempForEveryMonth

                              JavaScript Resources
               Shot on OnePlus
```

The Mapper Class:

```
ect Explorer 🛭 🕒 😘 🔝 🔻 🗀 🚺 Taskā java
                                                                                 | Tasklyana | TasklMapperjava | TasklKeducer,ava | Taskly|
| 1 | package TelevisionFroblemi; |
| 2 |
| 30 | import java.io.FileWriter; |
| 9 |
| 10 | public class TasklMapper extends Mapper (LongWritable, Taxt, 11)
| 12 | String company; |
| 13 | String model; |
| 14 | FileWriter Fr; |
| 15 | @Override.
 30-Days-of-Code-master
ESAPI
  Deployment Descriptor: HDFS

JAX-WS Web Services

Java Resources

    Com.rt.jio.Logger
    Demo
    Demol
    MaxandMinTempForZipCode
    maximumTempForEveryMonth

                                                                                                 @Overnide
                                                                                                   @Override
public void Setup(Context context) {
   company = new String();
   model = new String();
}
                                                                                                 > 

MaxTemperature
   > Presources

TelevisionProblem1

Task1.java
                                                                                                String t1 = "";
company = lineArray[0];
model = lineArray[1];

if ((company, equalsIpporeCase("NA")) || (model.equalsIpporeCase("NA"))) |;
    System.out.println(company + " + model);
} clase {
    for (sint i = 0; i < lineArray[linearray.length - i; i++) {
        i = 1 = lineArray[lineArray.length - 1;
        context.write(null, t1);
}</pre>
  > Q. Task1
> D. Task1Mapper.java
> D. TelevisionProblem2
> D. TelevisionProblem3
      N log4j2.xml
JavaScript Resources

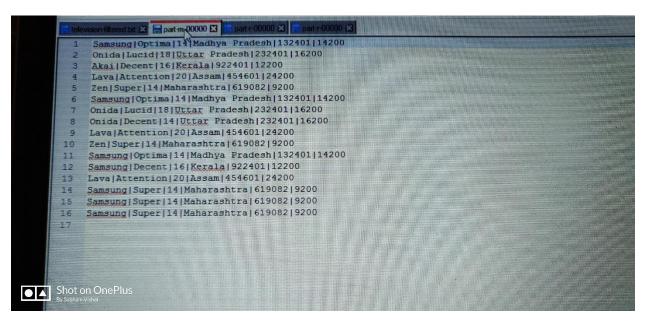
build
  app.log

    Shot on OnePlus
```

The original Data Set:

```
File Edit Format View Help
              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
Shot on OnePlus
```

The Filtered DataSet:



This dataset has all the lines with NA values removed.

Task 2:

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

Solution \rightarrow

The Driver class:

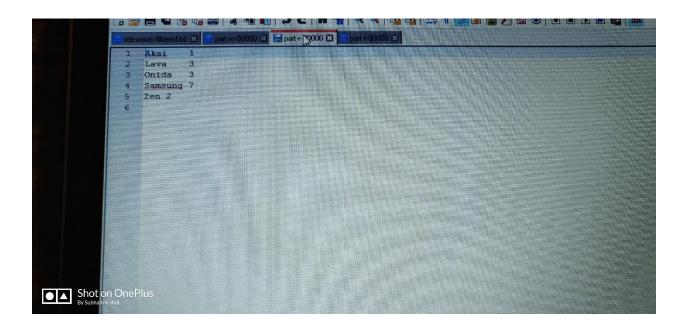
```
Doysof-Code-master

Doysof
```

The Mapper Class:

The Reducer Class:

Final Result:



Task 3:

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

Solution \rightarrow

The Driver class:

The Mapper Class:

The Reducer Class:

Final Result:

