#### Script to run the code.

Before starting anything, we will start our hadoop by first navigate to the directory of the hadoop. By using the following prompt in command prompt.

## C:\Program\_files\hadoop-3.2.1\sbin

Now, we will run the following command:

### .\start-dfs.cmd

The above command prompt will pop up, one for the name node and the other for the data node.

Next, we will start the yarn service using the following command:

# .\start-yarn.cmd

The main problem is divided into three different parts, as mentioned in our report.

We will run the following command to get the hadoop classpath

First we will go the directory of our project to compile our java files using following commands.

C:\DBMS\Project\MapReduceDirectory>javac -d . SalesMapper.java SalesCountryReducer.java SalesCountryDriver.java -cp "C:\hadoop-3.2.1\etc\hadoop;C:\hadoop-3.2.1\share\hadoop\common\lib\\*;C:\hadoop-3.2.1\share\hadoop\common\lib\\*;C:\hadoop-3.2.1\share\hadoop\common\\fis\\fis\\fis\\hadoop-3.2.1\share\hadoop\ndfs;C:\hadoop-3.2.1\share\hadoop\hdfs;C:\hadoop-3.2.1\share\hadoop\yarn\lib\\*;C:\hadoop-3.2.1\share\hadoop\yarn\fis\\fis\\fis\\fis\\hadoop-3.2.1\share\hadoop\yarn\fis\\fis\\hadoop-3.2.1\share\hadoop\yarn\fis\\fis\\hadoop-3.2.1\share\hadoop\yarn\fis\\fis\\hadoop-3.2.1\share\hadoop\yarn\fis\\fis\\hadoop-3.2.1\share\hadoop\yarn\fis\\hadoop\yarn\fis\\hadoop-3.2.1\share\hadoop\yarn\fis\\hadoop\yarn\fis\\hadoop-3.2.1\share\hadoop\yarn\fis\\hadoop\yarn\fi

After this, we create a new file Manifest.txt and add the class of driver file.

C:\DBMS\Project\MapReduceDirectory>jar cfm ProductSalePerCountry.jar Manifest.txt SalesCountry/\*.class C:\DBMS\Project\MapReduceDirectory>

Now, we will copy the file hotel-booking.csv into ~/inputMapReduce.

After this, we run the following command to run the MapReduce job:

# hadoop jar ProductSalePerCountry.jar /inputMapReduce /mapreduce\_output1

This will return a file mapreduce\_output1.

Now we will use the same steps for the second map reduce in the new directory "C:\DBMS\Project\MapReduceDirectory2" to perform the task on our second dataset.

We have also used one more MapReduce function that combine these values for each month and we get the month with most revenue generated.