#### 1. Adding input files to hdfs

```
[hadoop@ip-172-31-49-186 ~]$ hadoop fs -put yellow_tripdata_2017-01.csv /user/hadoop/
[hadoop@ip-172-31-49-186 hadoop] # hadoop fs -put yellow_tripdata_2017-02.csv /user
/hadoop/
[root@ip-172-31-49-186 hadoop] # hadoop fs -put yellow_tripdata_2017-03.csv /user
/hadoop/
[root@ip-172-31-49-186 hadoop] # hadoop fs -put yellow_tripdata_2017-04.csv /user
/hadoop/
[root@ip-172-31-49-186 hadoop] # hadoop fs -put yellow_tripdata_2017-04.csv /user
/hadoop/
[root@ip-172-31-49-186 hadoop] # hadoop fs -put yellow_tripdata_2017-05.csv /user
/hadoop/
[root@ip-172-31-49-186 hadoop] # hadoop fs -put yellow_tripdata_2017-06.csv /user
/hadoop/
[root@ip-172-31-49-186 hadoop] # hadoop fs -put yellow_tripdata_2017-06.csv /user
/hadoop/
[root@ip-172-31-49-186 hadoop] # hadoop fs -ls /user/hadoop/
Found 6 items
-rw-r---- 1 root hadoop 863487050 2023-04-25 04:04 /user/hadoop/yellow_tripdata_2017-01.csv
-rw-r---- 1 root hadoop 96909025 2023-04-25 04:15 /user/hadoop/yellow_tripdata_2017-03.csv
-rw-r---- 1 root hadoop 946349441 2023-04-25 04:15 /user/hadoop/yellow_tripdata_2017-04.csv
-rw-r---- 1 root hadoop 951965526 2023-04-25 04:15 /user/hadoop/yellow_tripdata_2017-05.csv
-rw-r---- 1 root hadoop 951965526 2023-04-25 04:15 /user/hadoop/yellow_tripdata_2017-06.csv
[root@ip-172-31-49-186 hadoop]#
```

#### 2. Task 4a

Result: Vendorld 2 has maximum trips with total revenue of 525037658.13640213.

### 3. Task 4b

Result: Pickup location Id 132 has the highest total revenue of 77196812.23975265

#### 4. Task 4c

```
[root@ip-172-31-49-186 hadoop]# python mrtask 4c.py -r hadoop hdfs:///user/hadoop/*csv > out_task4c.txt
No configs found; falling back on auto-configuration
No configs specified for hadoop runner
Looking for hadoop binary in SPATH...
Found hadoop binary: /bin/hadoop

WKONO_REDUCE=0

job output is in hdfs:///user/root/tmp/mrjob/mrtask_4c.root.20230425.043430.517677/output

Streaming final output from hdfs:///user/root/tmp/mrjob/mrtask_4c.root.20230425.043430.517677/output...
Removing HBFS temp directory /tmp/mrtask_4c.root.20230425.043430.517677...
[root@ip-172-31-49-186 hadoop]# cat out_task4c.txt
39754212 "1"
18832370 "2"
306912 "3"
88794 "4"
3 "5"
[root@ip-172-31-49-186 hadoop]# laboop]# laboops lab
```

**<u>Result:</u>** Payment Type 1 (Credit Card) has the highest number of trips followed by 2 (Cash) and 3 (No Charge).

#### 5. Task 4d

**<u>Result:</u>** The average trip time is calculated in minutes for each pickup location.

## 6. Task 4e

```
| Tooletip-172-31-49-186 | hadoop| | vi mrtask | 4e.py | [rootetip-172-31-49-186 | hadoop| | vi mrtask | 4e.py | r hadoop | hdfs:///user/hadoop/*csv > out_task4e.txt | No configs founds | failing | hade on auto-configuration | Looking for hadoop | hhary | status | Looking for hadoop | hhary | status | Looking for hadoop streaming | ar in /home/hadoop-contrib... | Looking for hadoop streaming | ar in /home/hadoop-contrib... | Looking for hadoop streaming | ar in /usr/1ib/hadoop-appreduce... | Found hadoop-appreduce... | Found hadoop-appreduc
```

7. Task 4f – Revenue per month analyzing hourly

```
[root@ip-172-31-49-186 hadoop] vi mrtask_4fhr.py
[root@ip-172-31-49-186 hadoop] python mrtask_4fhr.py -r hadoop hdfs://user/hadoop/*csv > out_task4fhr.txt
No configs found: falling back on auto-configuration
No configs specified for hadoop runner
Looking for hadoop binary: hin/hadoop
Using Hadoop binary: hin/hadoop
Using Hadoop version 2.8.5
Looking for Hadoop streaming jar in /home/hadoop/contrib...
Looking for Hadoop streaming jar in /usr/lib/hadoop-mapreduce...
Found Hadoop streaming jar: /usr/lib/hadoop-mapreduce...
Cocating for Hadoop streaming jar: /usr/lib/hadoop-mapreduce...
```



# 8. Task 4f Revenue per month analyzing Daywise