Task1 :

Find the number of unique listeners in the data set.

Wrote a MR Program and exported to Task1.jar

Output:

Solution: Identified the unique user's ID along with their occurances,

Total Unique Users = 3

Task:2

What are the number of times a song was heard fully.

Wrote a MR Program and exported to task2.jar

```
[acadgild@localhost ~]$ hadoop jar task2.jar /user/musicdata.txt /task2_output
18/11/25 23:47:54 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
18/11/25 23:48:03 INFO client.RMProxy: Connecting to ResourceManager at localhos
t/127.0.0.1:8032
18/11/25 23:48:09 WARN mapreduce.JobResourceUploader: Hadoop command-line option
 parsing not performed. Implement the Tool interface and execute your applicatio
n with ToolRunner to remedy this.
18/11/25 23:48:11 INFO input.FileInputFormat: Total input paths to process : 1
18/11/25 23:48:12 INFO mapreduce.JobSubmitter: number of splits:1
18/11/25 23:48:14 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_15
43166673466_0002
18/11/25 23:48:15 INFO impl.YarnClientImpl: Submitted application application_15
43166673466_0002
18/11/25 23:48:17 INFO mapreduce.Job: The url to track the job: http://localhost
:8088/proxy/application_1543166673466_0002/
18/11/25 23:48:17 INFO mapreduce.Job: Running job: job_1543166673466_0002
18/11/25 23:49:14 INFO mapreduce.Job: Job job_1543166673466_0002 running in uber
mode : false
```

Output:

```
[acadgild@localhost ~]$ hadoop fs -ls /task2_output
18/11/26 00:16:34 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
applicable
Found 3 items
-rw-r--r--   1 acadgild supergroup          0 2018-11-25 23:52 /task2_output/_SU
-rw-r--r--   1 acadgild supergroup          6 2018-11-25 23:52 /task2_output/par
-rw-r--r--   1 acadgild supergroup         12 2018-11-25 23:52 /task2_output/par
[acadgild@localhost ~]$ hadoop fs -cat /task2_output/part-r-00000
18/11/26 00:19:17 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
applicable
222     0
[acadgild@localhost ~]$ hadoop fs -cat /task2_output/part-r-00001
18/11/26 00:20:10 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
applicable
223     1
225     0
[acadgild@localhost ~]$
```

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Task:3

What are the number of times a song was heard fully.

```
[acadgild@localhost ~]$ hadoop jar task3.jar /user/musicdata.txt /task3_output
18/11/26 00:27:39 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
18/11/26 00:27:48 INFO client.RMProxy: Connecting to ResourceManager at localhos
t/127.0.0.1:8032
18/11/26 00:27:54 WARN mapreduce.JobResourceUploader: Hadoop command-line option
 parsing not performed. Implement the Tool interface and execute your applicatio
n with ToolRunner to remedy this.
18/11/26 00:27:57 INFO input.FileInputFormat: Total input paths to process : 1
18/11/26 00:27:58 INFO mapreduce.JobSubmitter: number of splits:1
18/11/26 00:27:59 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_15
43166673466_0003
18/11/26 00:28:01 INFO impl.YarnClientImpl: Submitted application application_15
43166673466_0003
18/11/26 00:28:02 INFO mapreduce.Job: The url to track the job: http://localhost
:8088/proxy/application_1543166673466_0003/
18/11/26 00:28:02 INFO mapreduce.Job: Running job: job_1543166673466_0003
18/11/26 00:29:05 INFO mapreduce.Job: Job job_1543166673466_0003 running in uber
 mode : false
18/11/26 00:29:06 INFO mapreduce.Job:  map 0% reduce 0%
18/11/26 00:29:51 INFO mapreduce.Job:  map 100% reduce 0%
18/11/26 00:31:17 INFO mapreduce.Job:  map 100% reduce 33%
18/11/26 00:31:18 INFO mapreduce.Job:  map 100% reduce 67%
```

Output:

```
[acadgild@localhost ~]$ hadoop fs -ls /task3_output
18/11/26 00:33:43 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
Found 3 items
-rw-r--r--   1 acadgild supergroup          0 2018-11-26 00:31 /task3_output/_SU
CCESS
-rw-r--r--   1 acadgild supergroup          6 2018-11-26 00:31 /task3_output/par
t-r-00000
-rw-r--r--   1 acadgild supergroup         12 2018-11-26 00:31 /task3_output/par
t-r-00001
[acadgild@localhost ~]$ hadoop fs -cat /task3_output/part-r-00000
18/11/26 00:34:42 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
222     1
[acadgild@localhost ~]$ hadoop fs -cat /task3_output/part-r-00001
18/11/26 00:35:17 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
223     1
225     0
[acadgild@localhost ~]$
```