1. Hadoop MapReduce Algorithm Implement MapReduce algorithm for finding Facebook common friend's problem and run the MapReduce job on Apache Hadoop. Write a report including your algorithm and result screenshots.

```
Description:
```

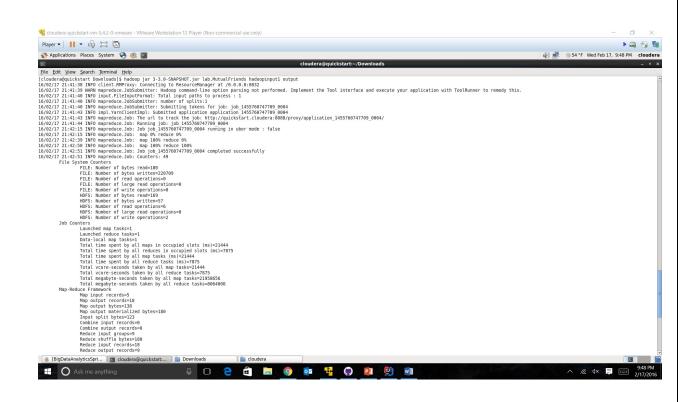
```
Algorithm used:

Map (Person, Friends List)
{
    Step1: pairing the friends, for example D-> A B C E, E-> B C D can be paired as D,E
    Step 2: Mapping the common friends of the paired D & E. Here it is DE->B, DE->C.
    Step 3: Emit (Paired Friends, Friends of paired friends)
}

Reduce (Paired Friends, Friends of paired friends)
{
Step 1: Reduce the no. of steps .For example DE -> (B,C)
Step 2: Emit (Paired Friends, Common friends)
}
Screenshots:
```

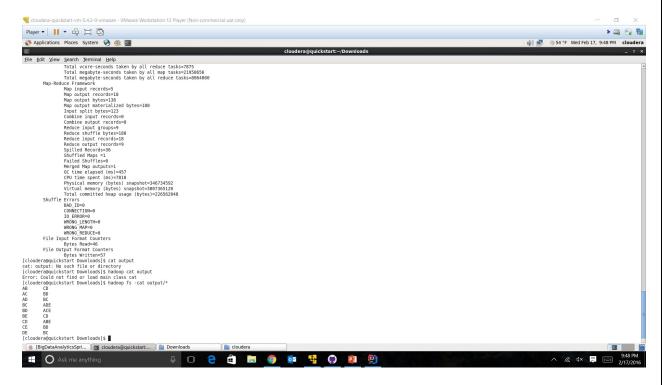
Varun Chavakula Class ID: 4





Lab Assignment 4

Varun Chavakula Class ID: 4



2. Smartphone/Watch Application Implement a smartwatch/smartphone application using existing speech services/ image services (e.g., IBM Alchemyapi, Face++) related to your project.

Description: I have created an app that uses the camera of our smart phone to capture images. This is done by using the camera API.