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:**

Mapper:

Map (person, friends list)

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Step 1: Pair the persons (in all combinations) Say A-> B C D, B-> A C D E, I will pair a combination as AB

Step 2: Map the common friends for A & B, in this case AB -> C, AB -> D

Step 3: Emit (Friends, Common Friends)

}

Reducer:

Reduce (Friends, Common Friends)

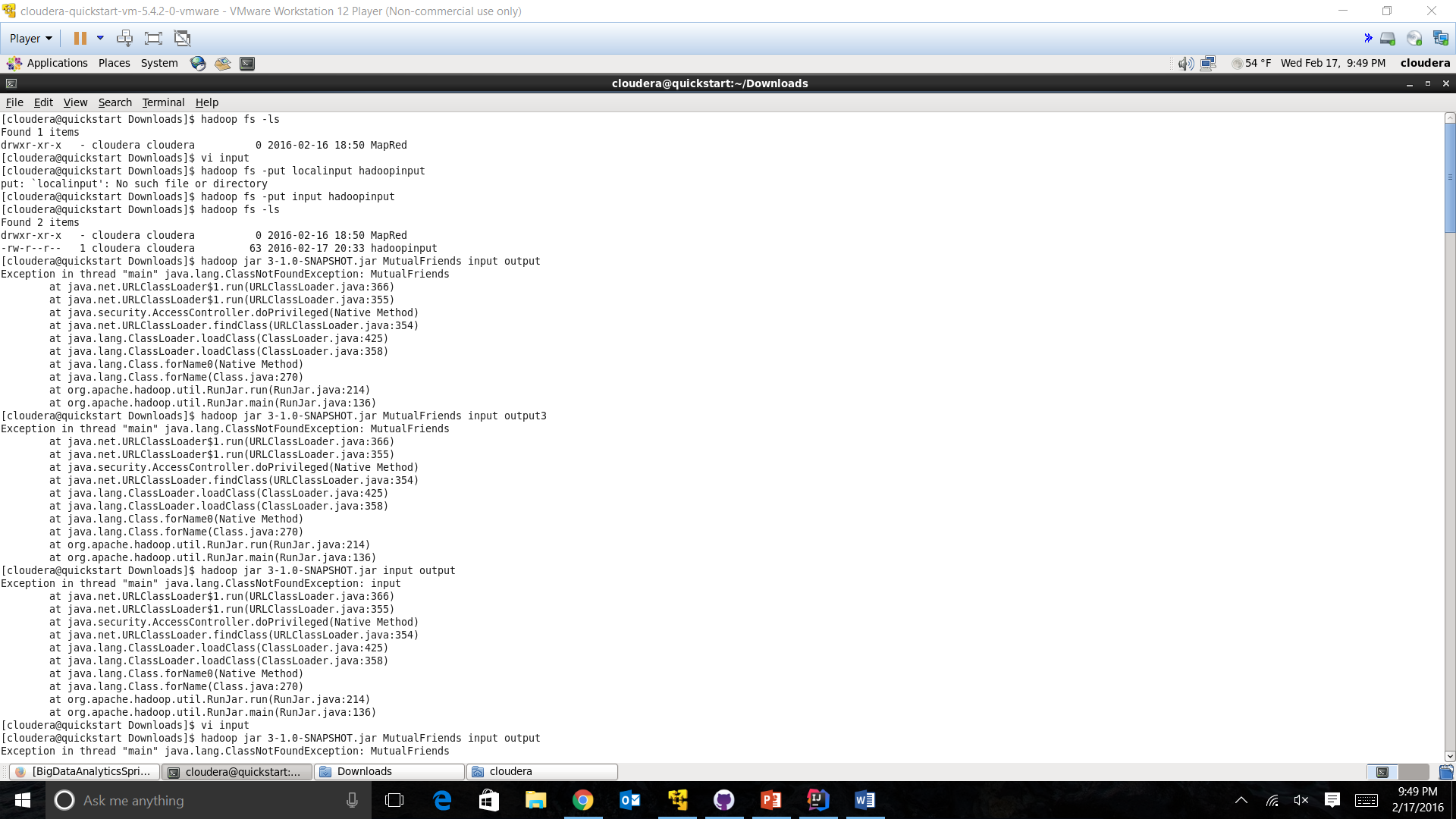
{

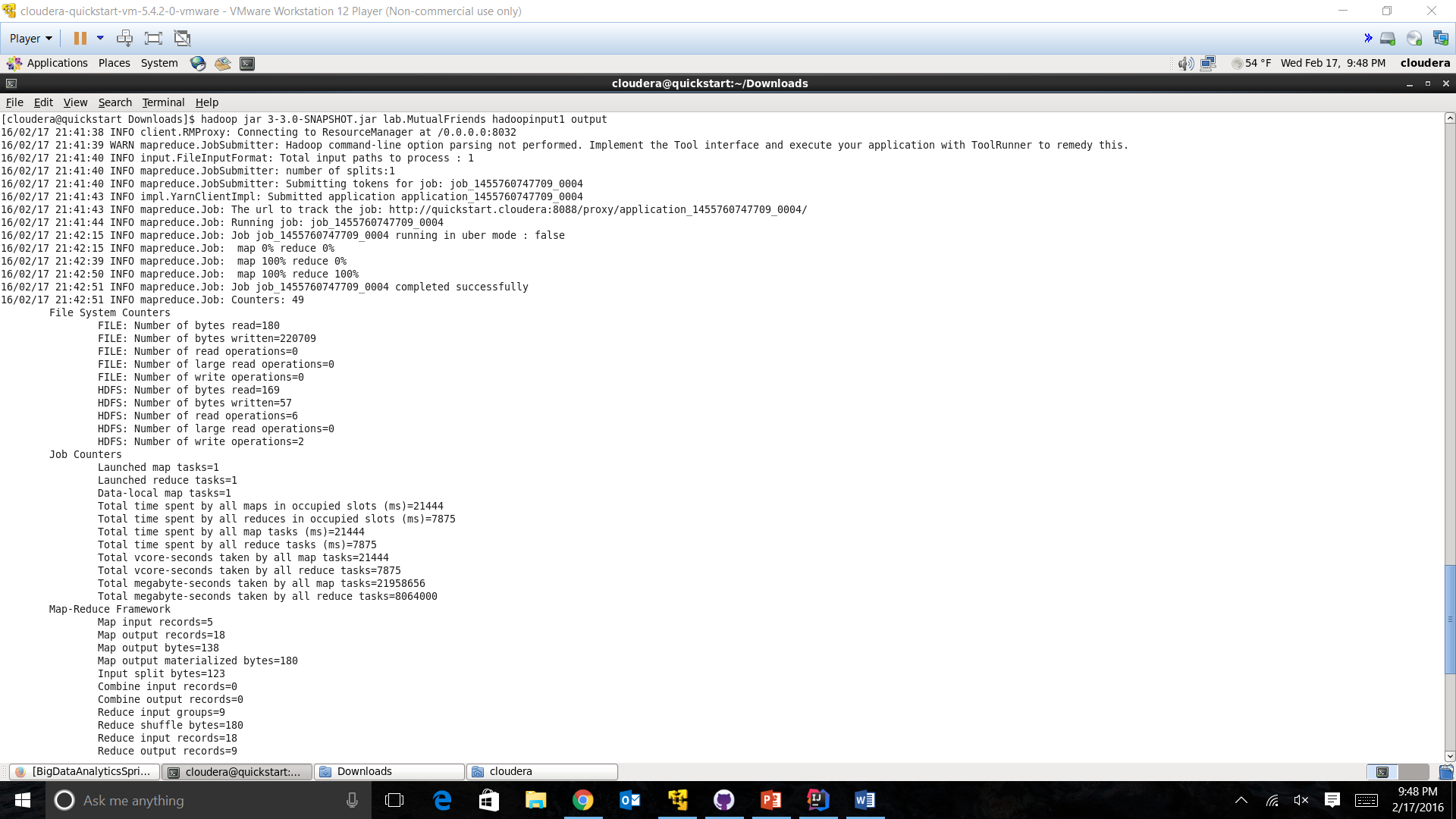
Step 1: Reduce the common friends in this case AB -> (C, D)

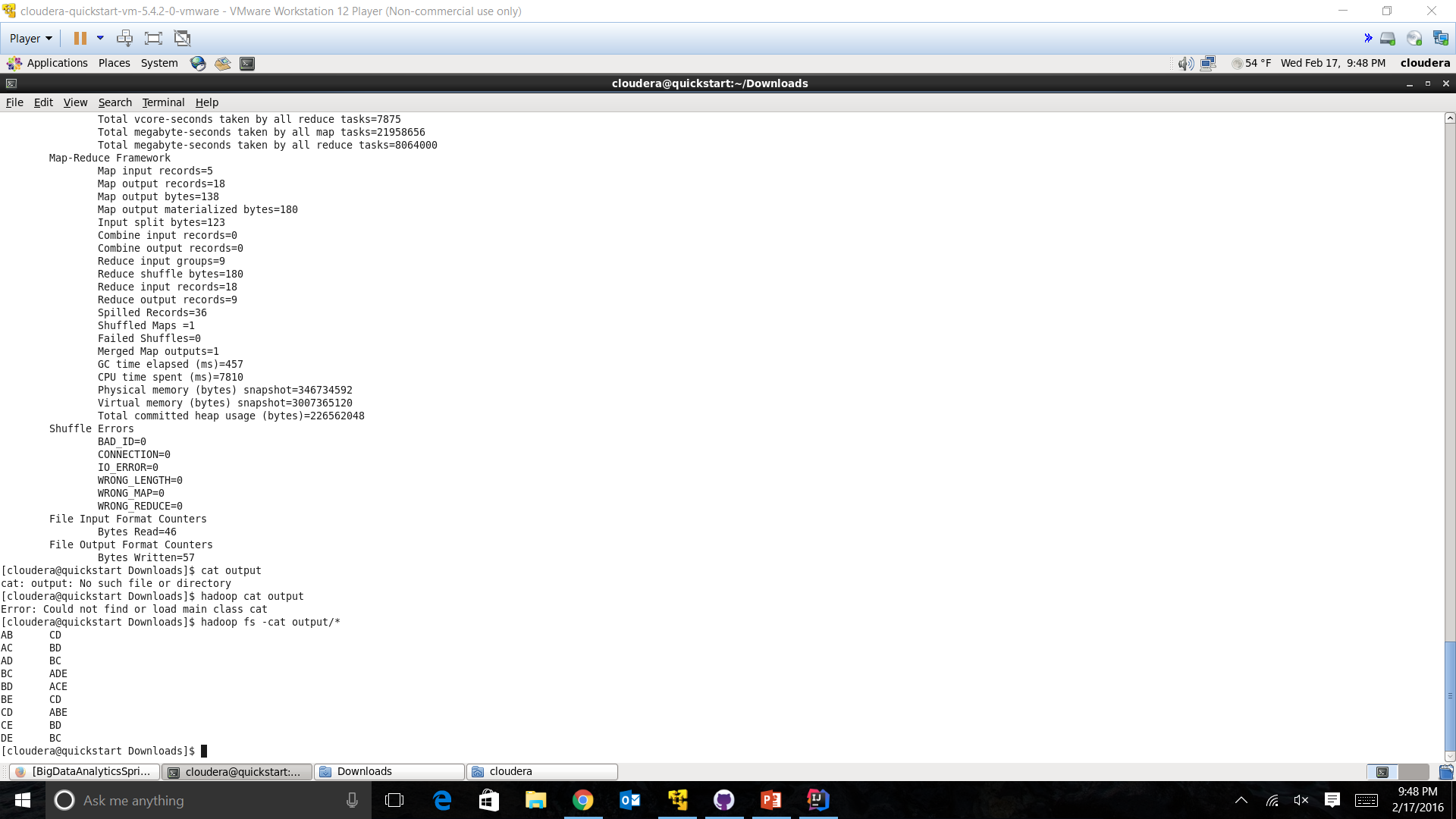
Step 2: Emit (Friends, Common Friends)

}

**Screenshots:**







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

**Description:**

I have created a Smartphone application using Camera API which calls the camera service in our smartphones and captures any image and show it on the screen.

**Screenshots:**

Screenshots will be provided shortly.