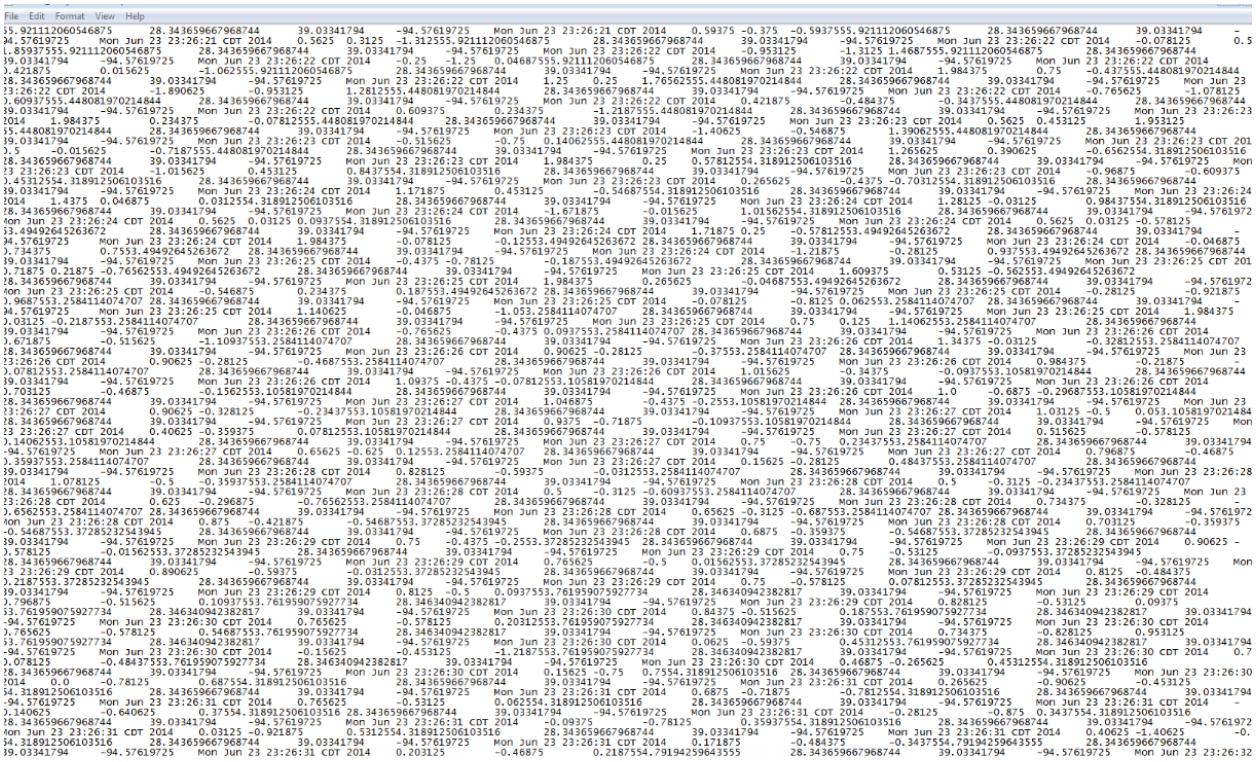
Lab 2

Data Collection

The existing source code is tweaked to the collect the data, off the sensor tag which includes Pressure and Humidity along with the GPS and Accelerometer values.

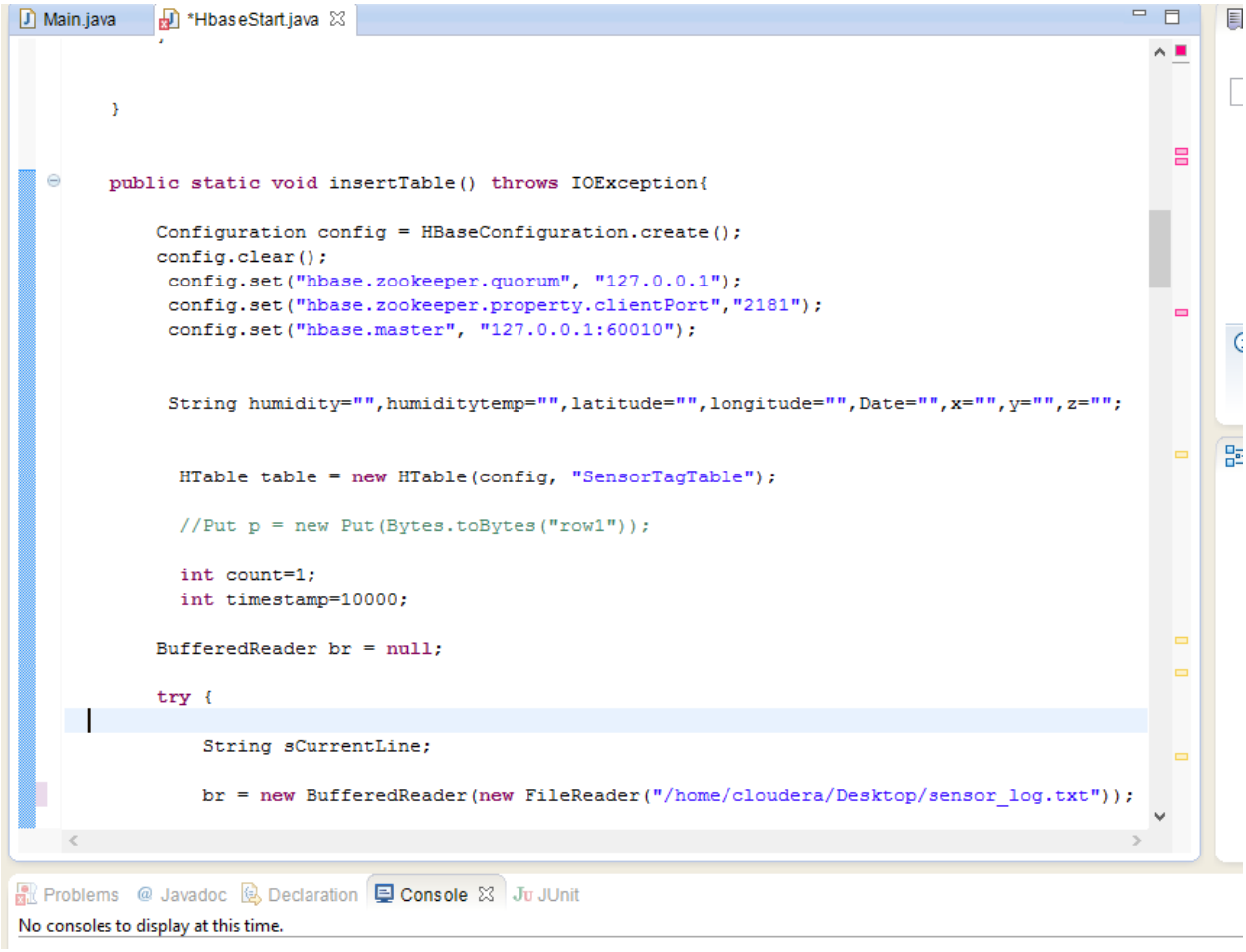


HBase Client Application

Local Cloudera VM has been used.

Creating Table

Inserting Data



Retrieving Data

Main.java | *HbaseStart.java

```
public static void retrieveTable() throws IOException{

    Configuration config = HBaseConfiguration.create();
    config.clear();
     config.set("hbase.zookeeper.quorum", "127.0.0.1");
     config.set("hbase.zookeeper.property.clientPort","2181");
     config.set("hbase.master", "127.0.0.1:60010");


      HTable table = new HTable(config, "SensorTagTable3");

     Get g = new Get(Bytes.toBytes("row1"));

      Result r = table.get(g);

      byte [] value = r.getValue(Bytes.toBytes("Humidity"),Bytes.toBytes("col1"));

      byte [] value1 = r.getValue(Bytes.toBytes("HumidityTemp"),Bytes.toBytes("col2"));

      byte [] value2 = r.getValue(Bytes.toBytes("latitude"),Bytes.toBytes("col3"));

      byte [] value3 = r.getValue(Bytes.toBytes("longitude"),Bytes.toBytes("col4"));

      byte [] value4 = r.getValue(Bytes.toBytes("Date"),Bytes.toBytes("col5"));

      byte [] value5 = r.getValue(Bytes.toBytes("x"),Bytes.toBytes("col6"));

      byte [] value6 = r.getValue(Bytes.toBytes("y"),Bytes.toBytes("col7"));

      byte [] value7 = r.getValue(Bytes.toBytes("z"),Bytes.toBytes("col8"));
```