

## Lab 2

## Data Collection

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

File Edit Format View Help

```

5, 9211122600546875 28.3436596768744 39.03341794 -94.57619725 Mon Jun 23 23:26:21 CDT 2014 0.59375 -0.375 -0.593755, 921112060546875 28.3436596768744 39.03341794 -94.57619725 Mon Jun 23 23:26:22 CDT 2014 -0.78125 0.5
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```

## HBase Client Application

## Creating Table

```
main.java HbaseStart.java
HBaseAdmin admin = new HBaseAdmin(config);

try {
    // HBaseConfiguration hc = new HBaseConfiguration(new Configuration());

    HTableDescriptor ht = new HTableDescriptor("SensorTagTable");

    ht.addFamily( new HColumnDescriptor("Humidity"));

    ht.addFamily( new HColumnDescriptor("HumidityTemp"));

    ht.addFamily( new HColumnDescriptor("latitude"));

    ht.addFamily( new HColumnDescriptor("longitude"));

    ht.addFamily( new HColumnDescriptor("Date"));

    ht.addFamily( new HColumnDescriptor("x"));

    ht.addFamily( new HColumnDescriptor("y"));

    ht.addFamily( new HColumnDescriptor("z"));

    System.out.println( "connecting" );

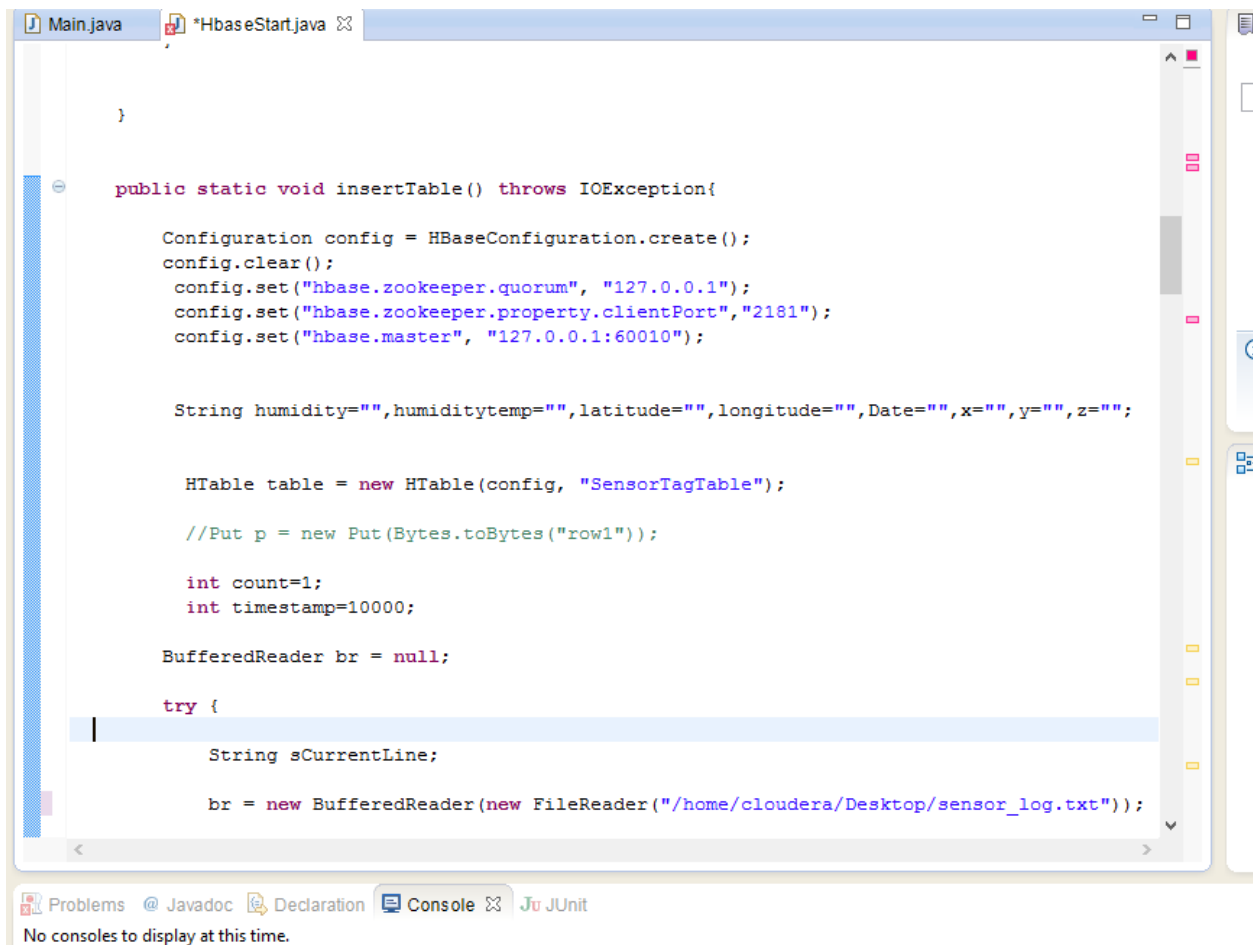
    HBaseAdmin hba = new HBaseAdmin( config );

    System.out.println( "Creating Table" );

    hba.createTable( ht );

    System.out.println("Done.....");
}
```

## Inserting Data



```

}

public static void insertTable() 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");

    String humidity="",humiditytemp="",latitude="",longitude="",Date="",x="",y="",z="";

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

    //Put p = new Put(Bytes.toBytes("row1"));

    int count=1;
    int timestamp=10000;

    BufferedReader br = null;

    try {
        String sCurrentLine;

        br = new BufferedReader(new FileReader("/home/cloudera/Desktop/sensor_log.txt"));
    }
}

```

Problems Javadoc Declaration Console JUnit

No consoles to display at this time.

## Retrieving Data