Lab -2

Name:Vishnu Praveen Gude

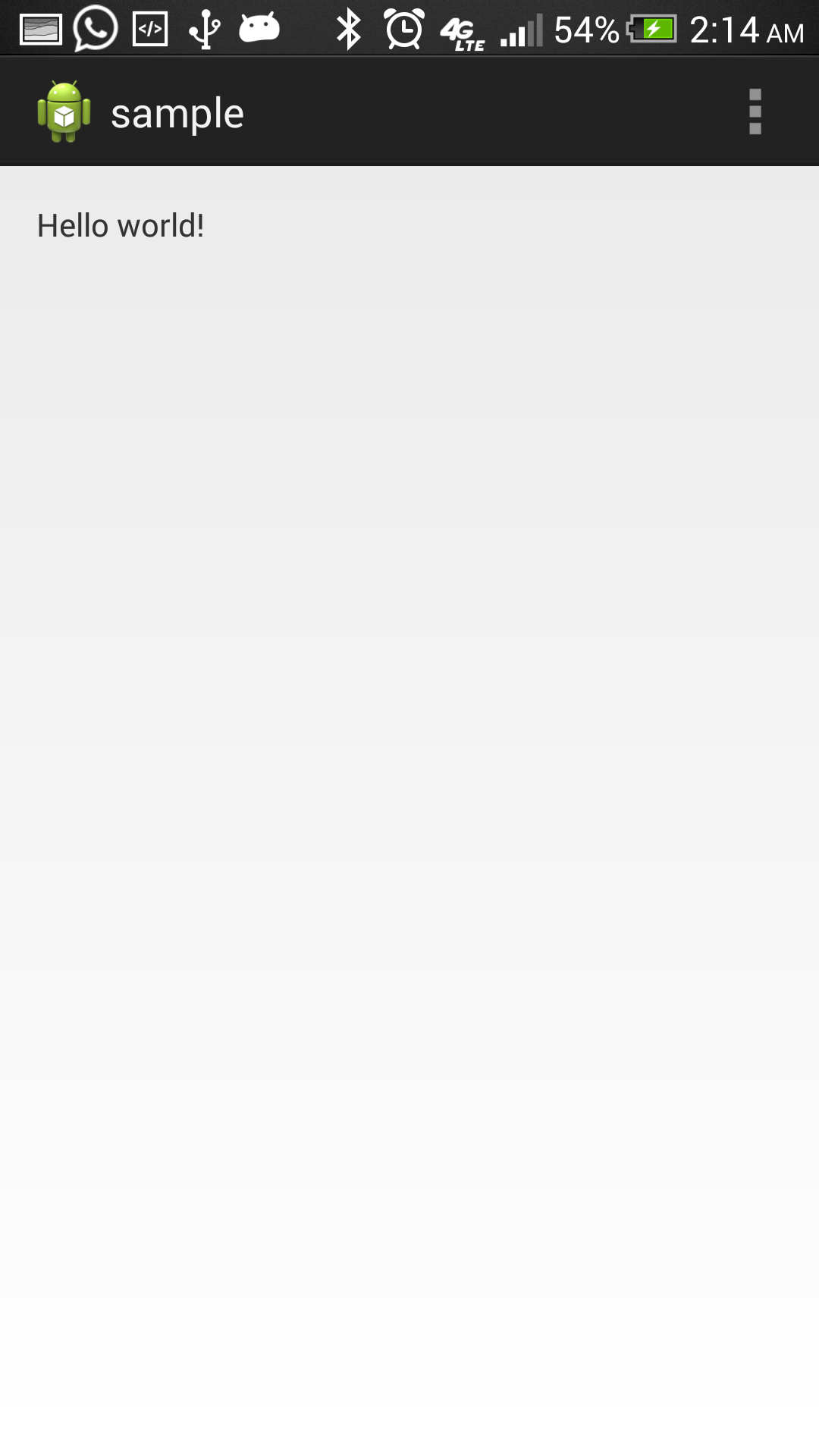
Number : 16103389

**SensorTagData/Hbase Application:**

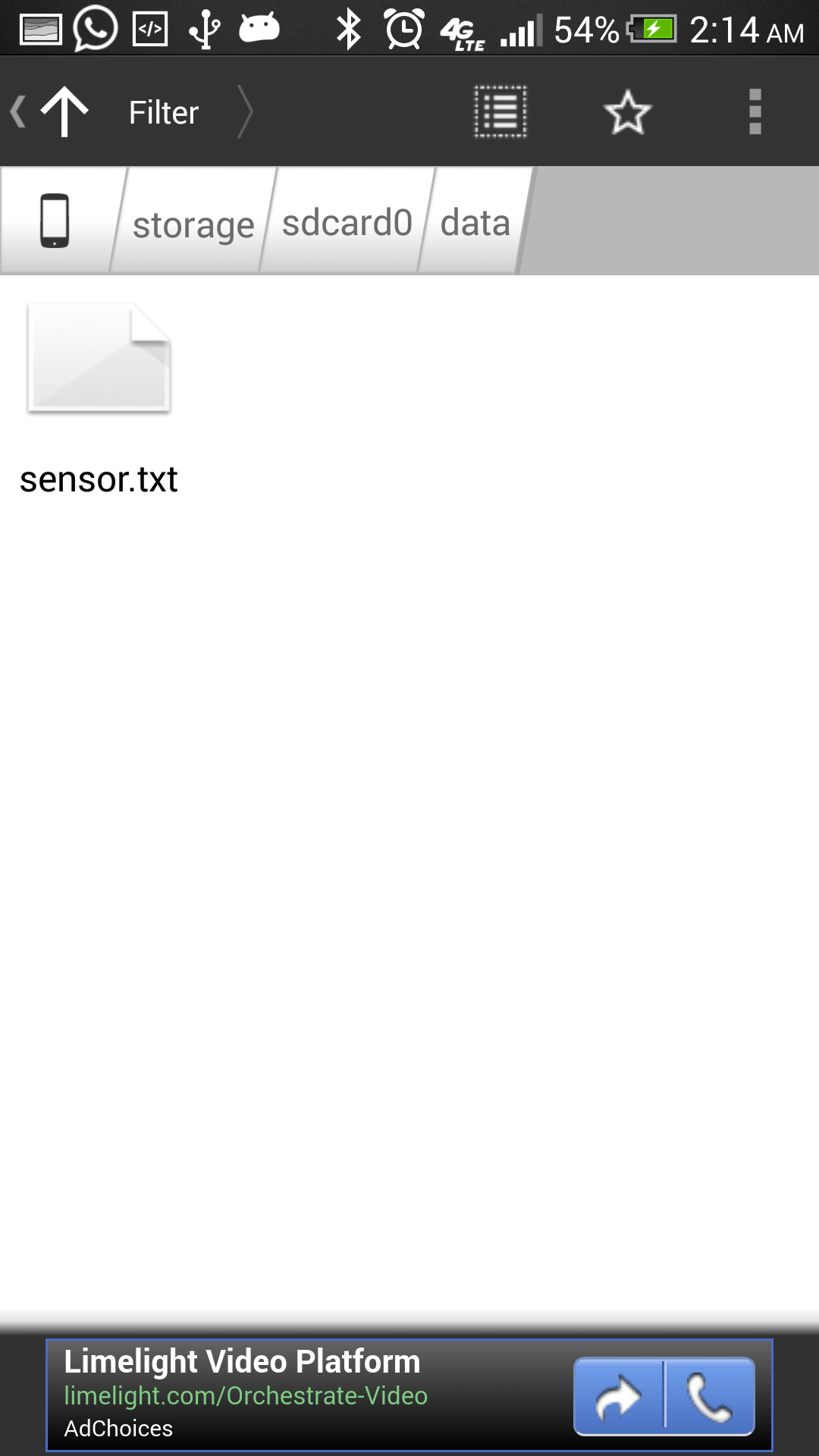
1. I downloaded SensorTag Application in the blackboard and imported to eclipse.
2. The I look through the code and observed that it will get the sensor Data and saves it to sensor.txt file and stores into SD card storage and in Data folder.
3. Before running the program my Data folder is empty



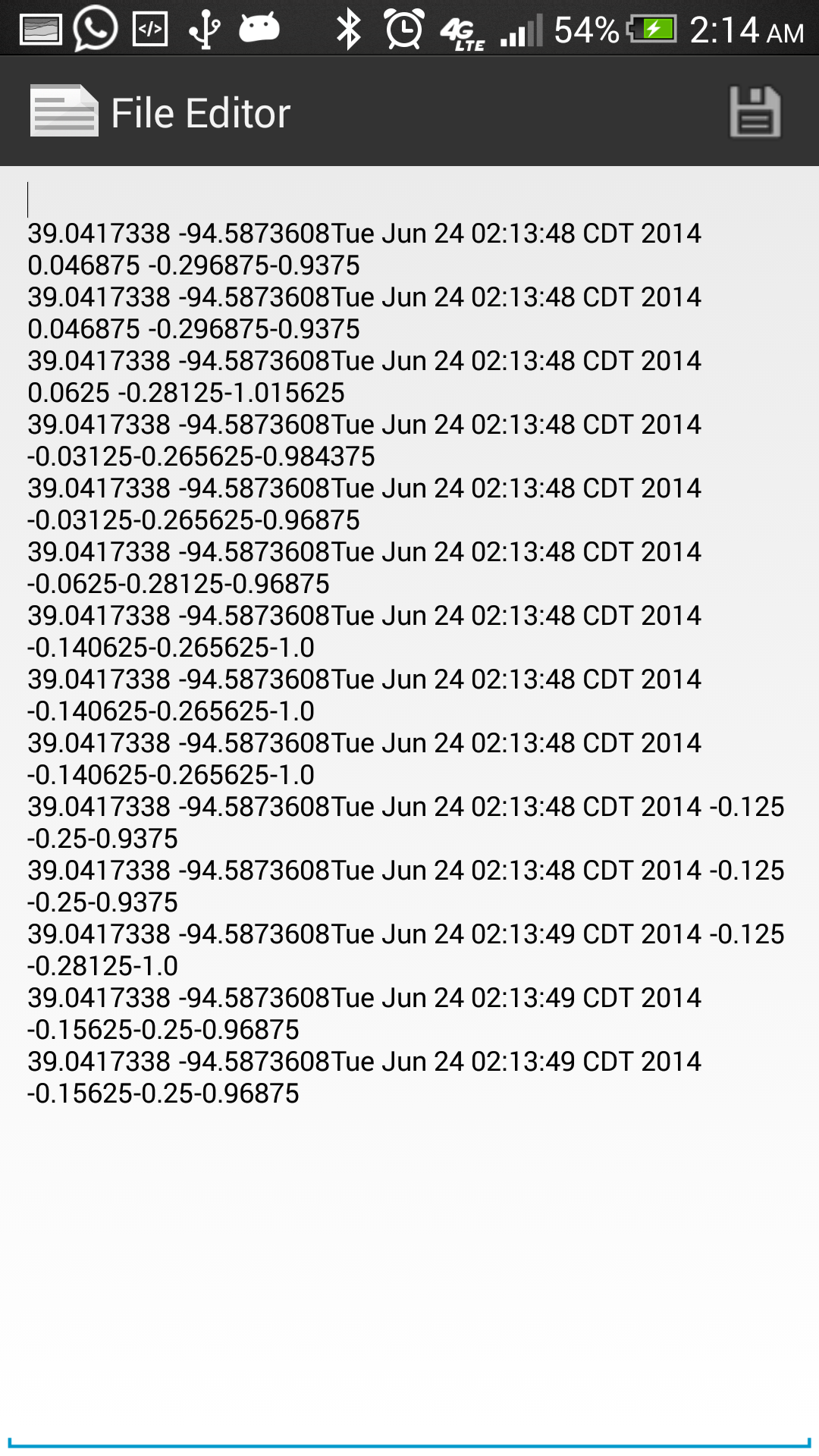
After Executing the program



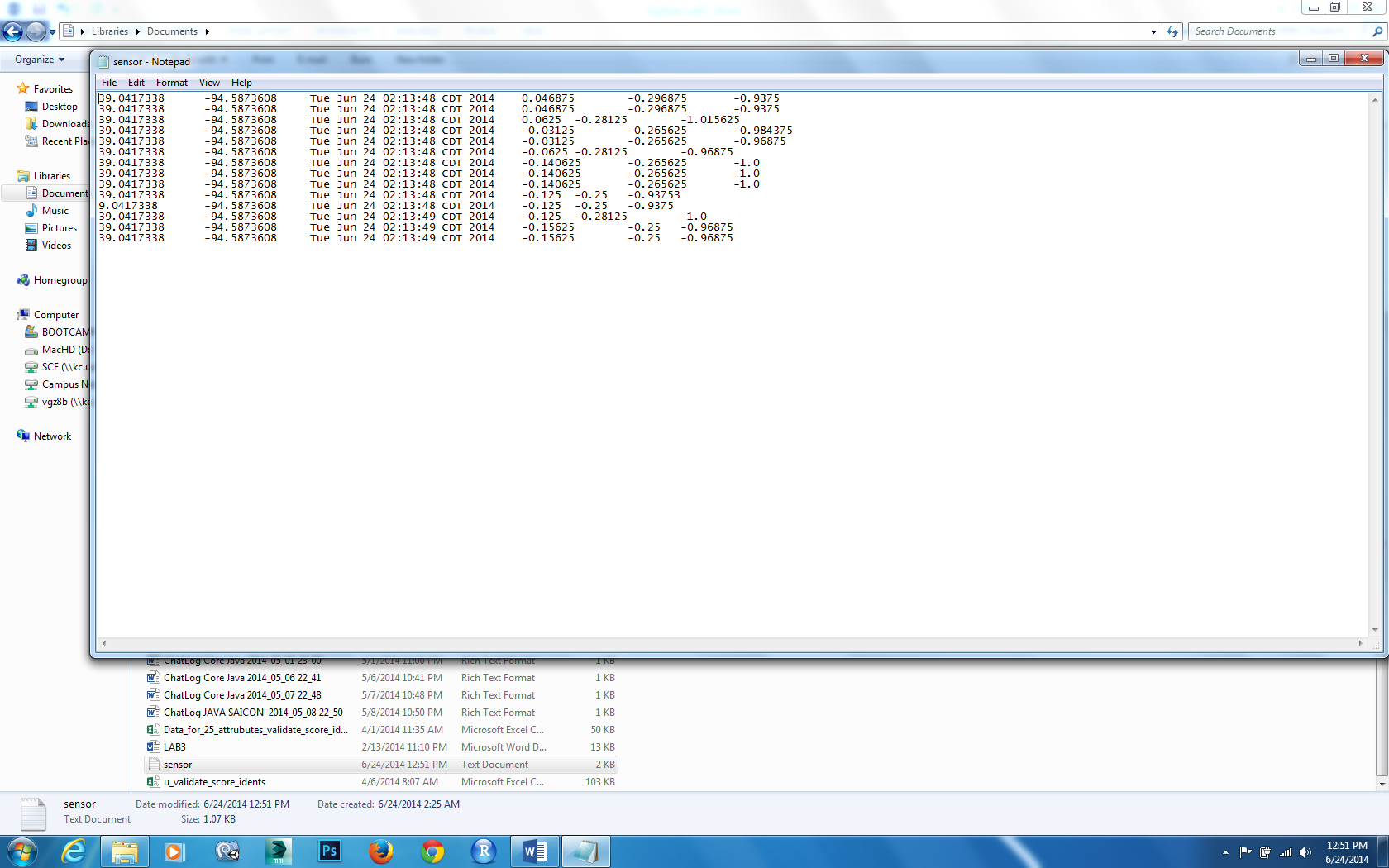
After Exiting the application my data folder is



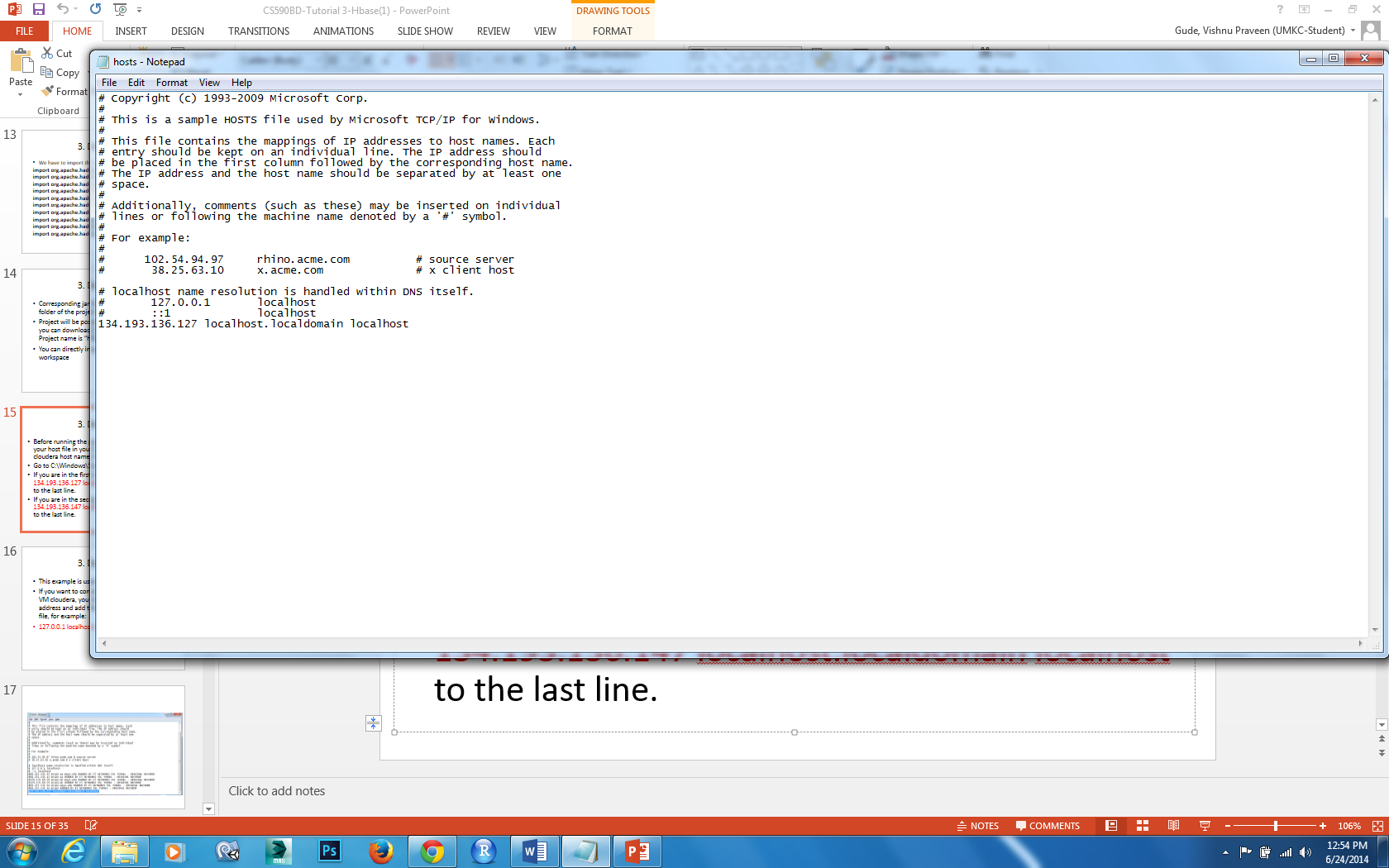
I opened that file in file editor



Now I saved that file into my system and separated the data with \t(Tab separator)



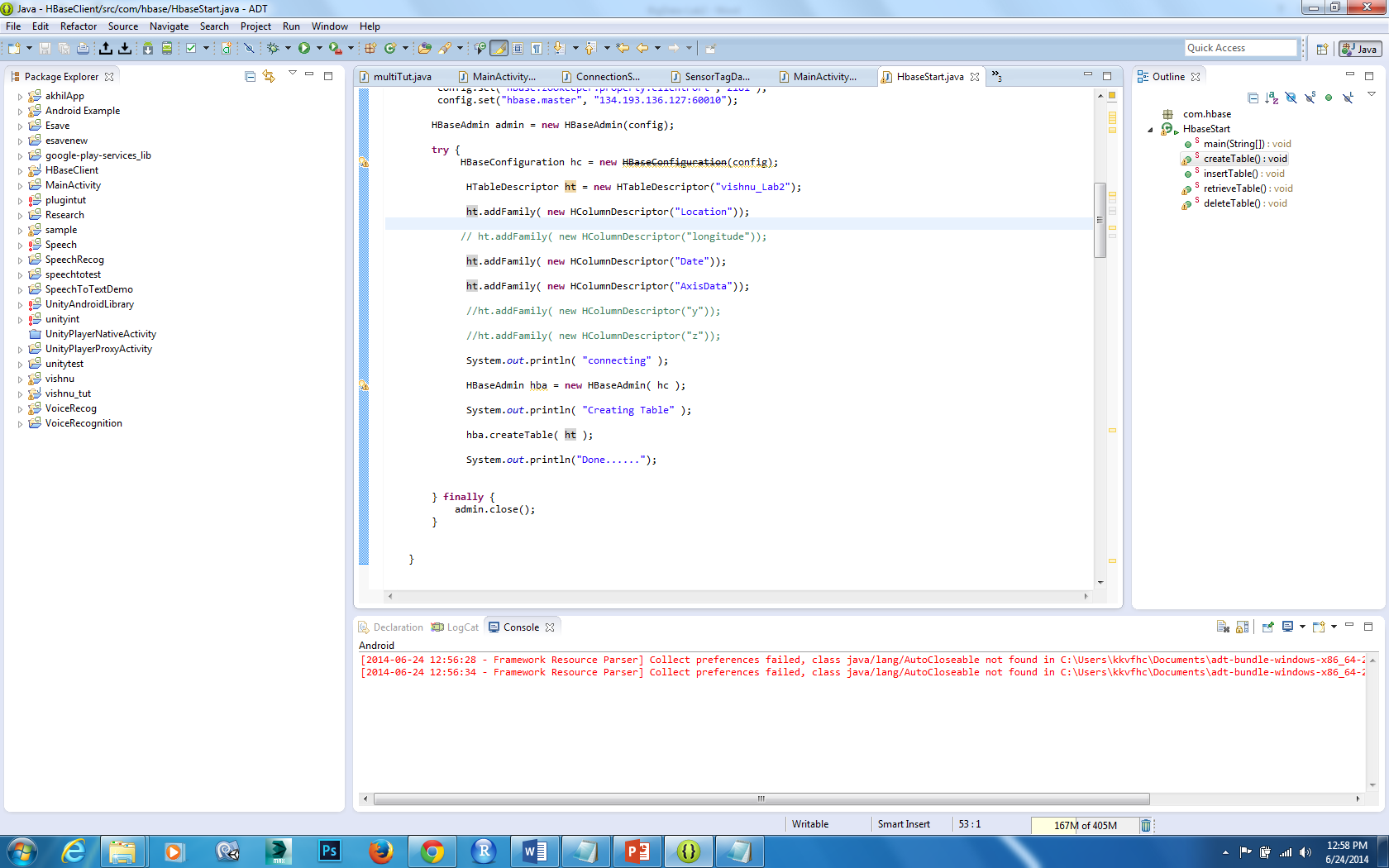
Now I downloaded the Hbase client application from blackboard and I imported into eclipse

I edited hosts file as administrator and added IP in last line

Now I made lot of changes to code to add my data structure in Hbase

Table Creation:

My table name is Vishnu\_Lab2 and I created three column families inside the table Location,Date,AxisData



I added One row key “sensor” for all sensor related data

Now in column families I inserted family keys to each column family

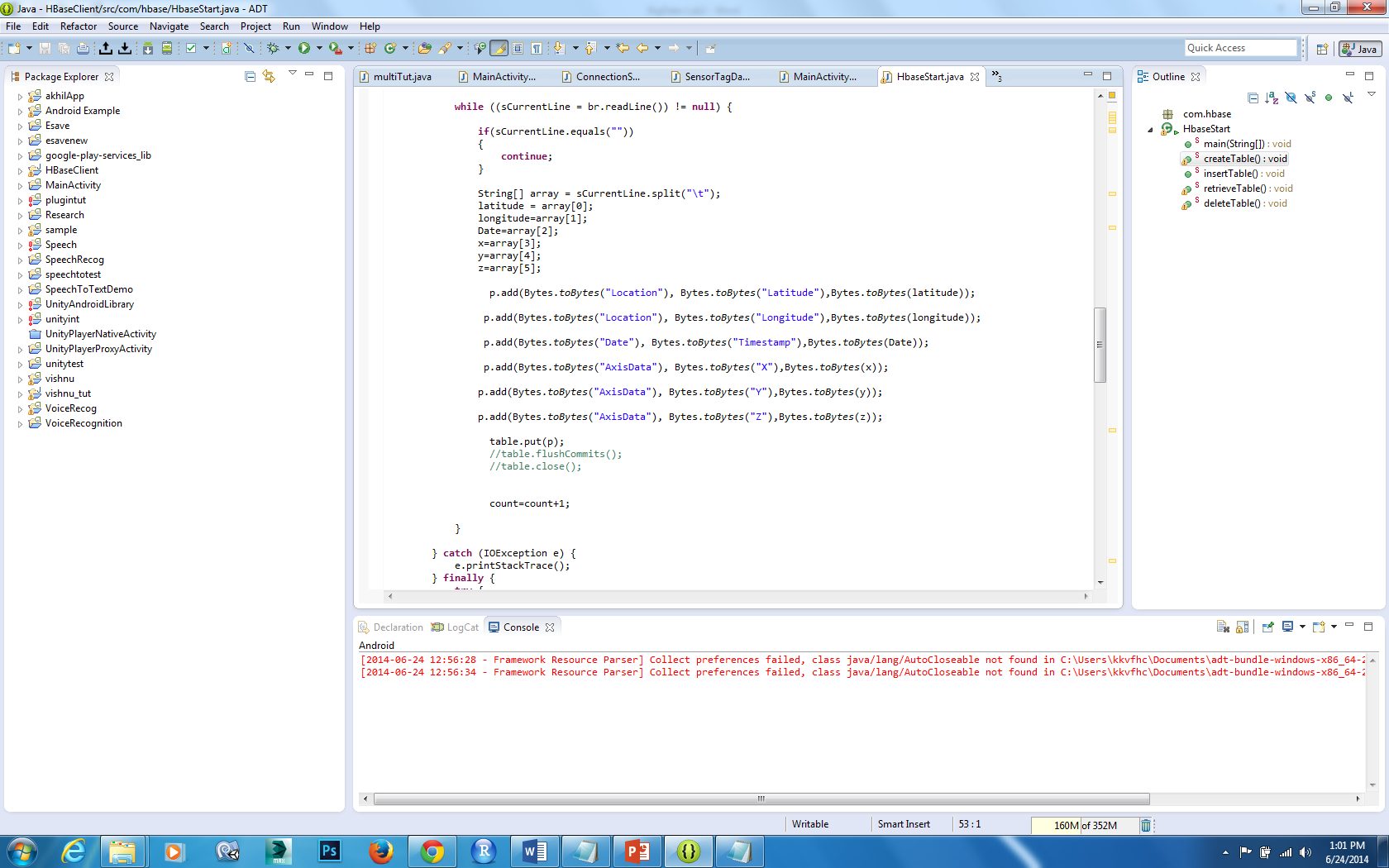
Location : Longitude,Location:Latitude

Date : Timestamp

AxisData:X,AxisData,Y,AxisData:Z

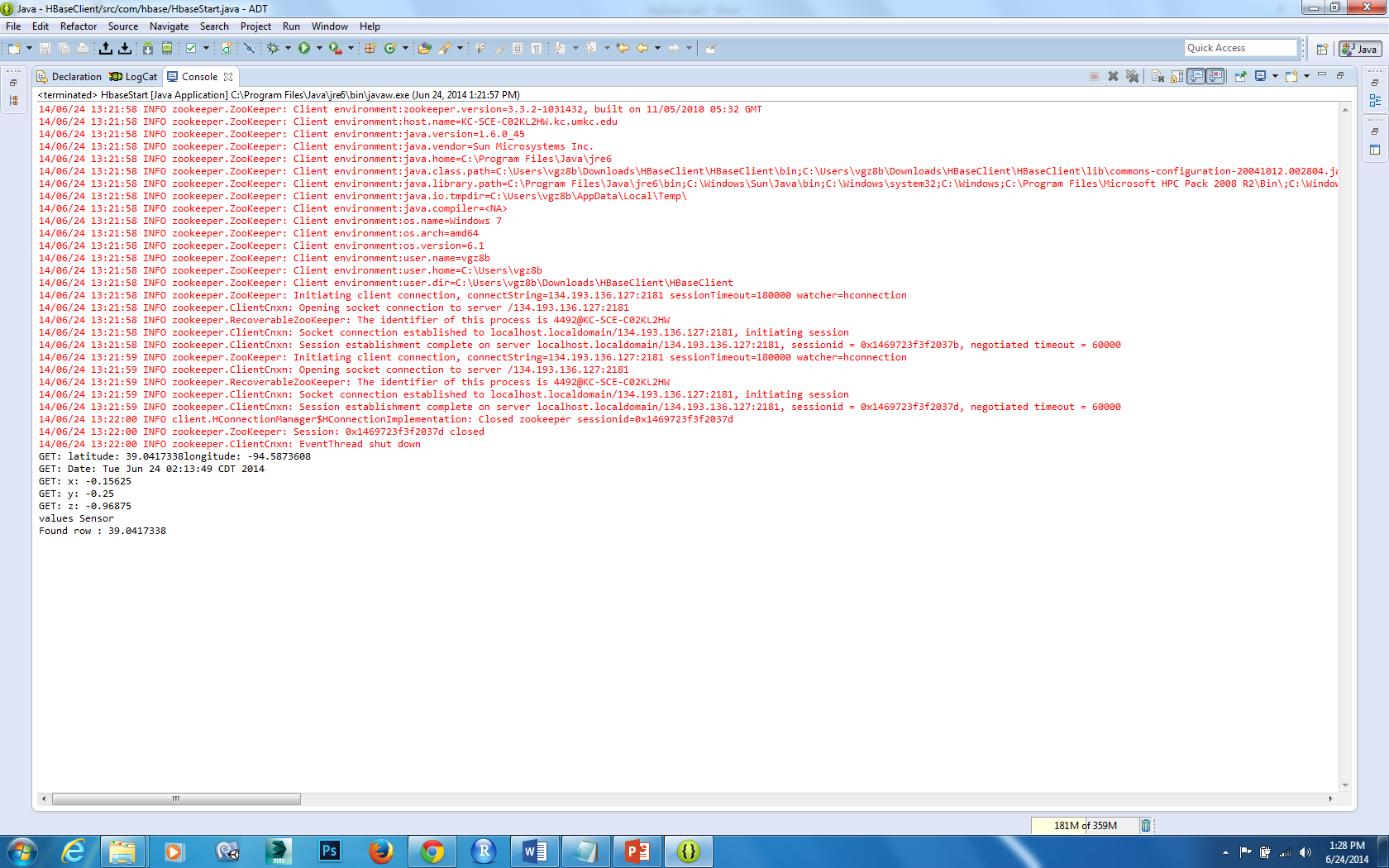
Now inside the code sensor.txt data is taken into array by separator \t(Tab)

Now I inserted to colum families with Row key and Family Keys



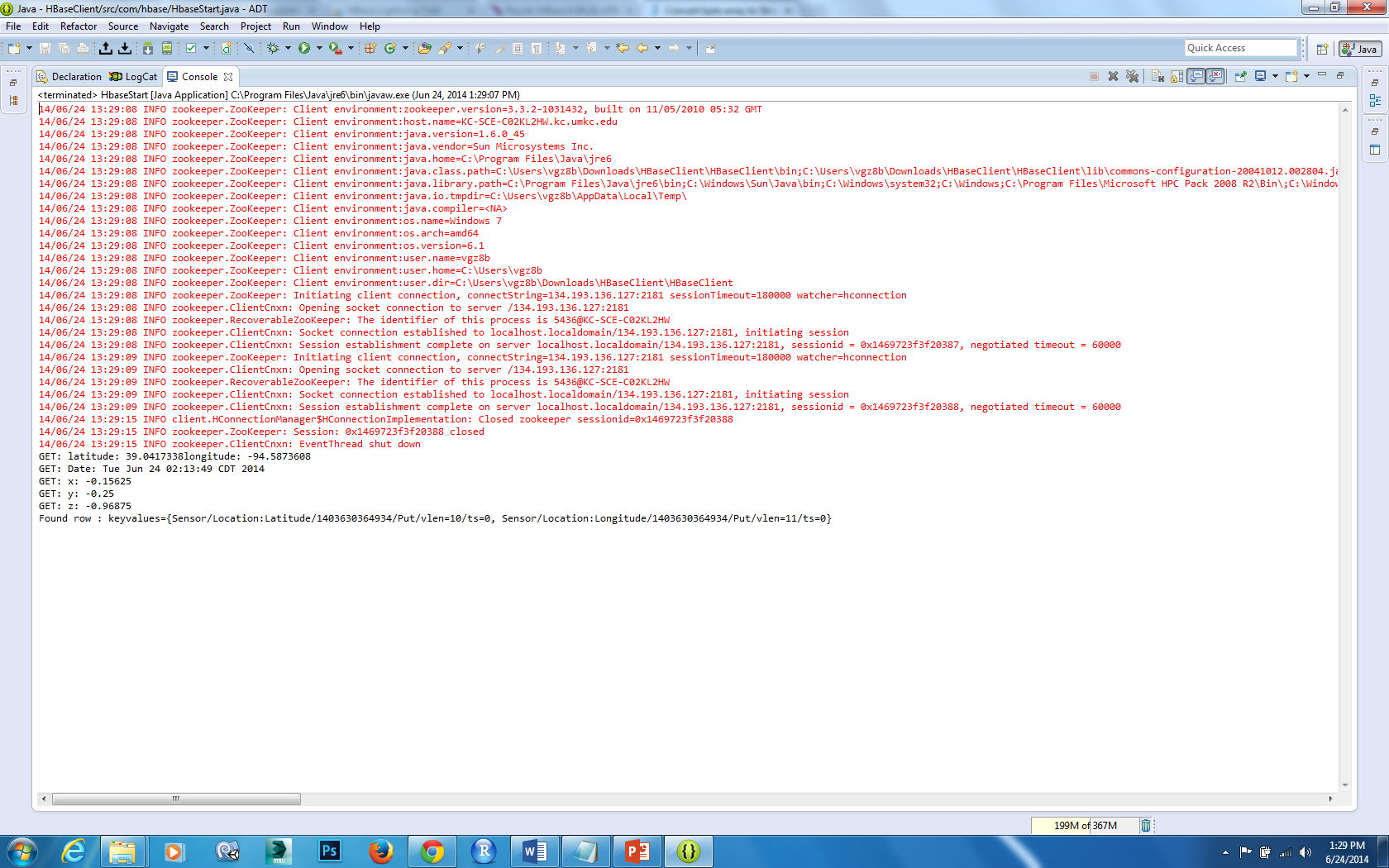
Retrieve Data:

Now Based on My Row key and Column Keys I retrieved Data and displayed to console .



Now I used Scan class to scan the rows

I had only one row so the row sensor is displayed to console



In this way we can push sensortag data to Hbase tables and we can retrieve data and use that data in various applications easily.