Task1:

Enhance the Android App developed from Lab 3 by adding the following features.

**Subtask1 :**

*Provide a Save File option once you invoke the HBASE Retrieval operation.*

Here, for the android app developed in lab 03, adding one more button as 'save'.The event listener for that button will be the data from the HBase retrieve option will get stored in the file which we provide. Run the application on Nexus phone as follows.



The file generated in the system is in the location c://sensor.txt and is given below.



Generated file content is:



**Subtask 2:**

*Add an Activity Recognition option to generate a report.*

*Segment and convert to sequence file for Training files.*

Generating the input files using the sensor are as follows:



Do the same for the other text files.

Generated Output sequence file will be:

<http://134.193.136.127:8080/HMMWS/jaxrs/generic/TrainFileOperation/-home-group5-tejasree-punch.txt/-home-group5-punch_tejasree.seq>



Similarly generate the sequence files for the remaining three text files.

<http://134.193.136.127:8080/HMMWS/jaxrs/generic/TrainFileOperation/-home-group5-tejasree-lefttoright.txt/-home-group5-lefttoright_tejasree.seq>

<http://134.193.136.127:8080/HMMWS/jaxrs/generic/TrainFileOperation/-home-group5-tejasree-righttoleft.txt/-home-group5-righttoleft_tejasree.seq>

<http://134.193.136.127:8080/HMMWS/jaxrs/generic/TestFileOperation/-home-group5-tejasree-finaltest.txt/-home-group5-test_tejasree.seq>

**Subtask 2***:*

*Training and Testing for Activity Recognition (for three motions as training data)*

The input files for training are the generated sequence files from both the input files of sensor data and the input file for testing will be the combination of all the sequence files.

<http://134.193.136.127:8080/HMMWS2/jaxrs/generic/HMMTrainingTest/-home-group5-punch_tejasree.seq:-home-group5-righttoleft_tejasree.seq:-home-group5-lefttoright_tejasree.seq/punch:lefttoright:righttoleft/-home-group5-test_tejasree.seq>