**Software Description**

Title: **Android Personal Data Collector Application [V4- User Activities category]**

In this application, we tried to focus on collecting user activiy information. To define user activity, most of researchers they used accelerometer sensor and sometime they also tried to combine with another sensors such as gyroscopesensor, etc. In this application, we tried to collect the data from sensors that can help to define user activities.

1. AccelerometerSensorProbe.java
2. ActivityProbe.java
3. GyroscopeSensorProbe.java
4. LinearAccelerationProbe.java
5. RotationVectorSensor.java

**Generating Values**

AccelerometerSensorProbe.java, GyroscopeSensorProbe.java, LinierAccelerationProbe.java, and RotationVectorSensor.java.

Four files above have similar function which is to get the values of :

1. acceleration (x,yz) values -> AccelerometerSensorProbe.java
2. gyroscope values -> GyroscopeSensorProbe.java
3. linear acceleration values -> LinierAccelerationProbe.java
4. rotation values -> RotationVectorSensor.java

**ActivityProbe.java**

This file contatin function that we develop to define intensity of user activity, we set threshold value. When the activity more than threshold value we give the label “high” activity, and when the activity less than threshold value we give the label “low” activity. Another activity is “none” it means nothing activity such as when the phone is idle.