**Software Description**

Title: **Android Personal Data Collector Application [V8- V7+Encription methods]**

In this version, we talking about user privacy. The purpose of our application is to collect personal user data from their smartphone as much as possible. We have the problem related with user privacy, of course, just thinking about ourselves. Who want their privacy known by others?. Of course, everyone want theirs privacy is save. Their privacy in this case means such as the message in their text message application, incoming and outgoing phone number and etc. So, from that problem we tried to find a solution and we get it. The solution for this problem is encryption.

This application is application version 7 which implemented all of features from previous applications and we adding encryption function to save user privacy.

1. Application version 1 (focus on hardware information collection)
   1. HardwareInfoProbe.java
   2. BatteryProbe.java
2. Application version 2 (focus on user interaction data collection)
   1. AccountsProbe.java
   2. ApplicationProbe.java
   3. AudioFeaturesProbe.java
   4. BrowserBookmarkProbes.java
   5. ImageMediaProbes.java
   6. RunningApplicationProbe.java
   7. ScreenProbe.java
   8. VideoMediaProbe.java
3. Application version 3 (focus on user environment condition data)
   1. GravitySensorProbe.java
   2. LightSensorProbe.java
   3. OrientationSensorProbe.java
   4. PressureSensorProbe.java
   5. ProximitySensorProbe.java
   6. TemperatureSensorProbe.java
4. Application version 4 (focus on user activity data collection)
   1. AccelerometerSensorProbe.java
   2. ActivityProbe.java
   3. GyroscopeSensorProbe.java
   4. LinearAccelerationProbe.java
   5. RotationVectorSensor.java
5. Application version 5 (focus on user position)
   1. BluetoothProbe.java
   2. LocationProbe.java
   3. WiFiProbe.java
6. Application version 6 (focus on social user interaction)
   1. **CallLogProbe.java (some of information encypted)**
   2. **ContactProbe.java (some of information encypted)**
   3. **SmsProbe.java (some of information encypted)**
7. Application version 7 (integrate all of function in application version 1 until version 6)

The information that we have encrypted such as phone number from incoming and outgoing person, contact name, content of message, and etc. Actually because of this encryption we lost many of information but we do not loss the pattern, for example in content text message we tried to define how many words, how many spaces, total words and etc. Hash function that we implemented is SHA1, so we still can define who is frequently to communicate with user because the same phone number will generate same hash.