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**UNIVERSITY OF RWANDA**

**COLLEGE OF SCIENCE AND TECHNOLOGY**

**COMPUTER ENGINEERING**

**Year 3 CSE**

**GROUP MEMBERS:**

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**ASSIGNMENT OF MOBILE COMPUTING**  
**(Java LAB 2)**

Lecturer: Mr. Dieudonne U.

1. Explain the types of intents that were applied in the lab.

An Intent is a messaging object you can use to request an action from another app component.

**Explicit intents:** Starting new activity.

When we start a new activity, we know exactly which package name and class that does the required action.

Example: ... Intent(MainActivity.this, Register.class);

**Implicit intents:** The call feature.

When user clicks the call option, our app does not know what app will handle the action.

The Android System decides what app can do the required action.

Example: ...Intent(Intent.ACTION\_DIAL, Uri.fromParts("tel", "0787418401", null));

2. How did you introduce exception handling in this Lab.

When user inputs invalid values, the app does not crashes. Appropriate error messages are displayed to the user.

Example:

User can input a height value of a big number(99999999999) that cannot be parsed to int.

So, the app would crash without the try catch exception handling.

Note: on the BMI function, we made sure the height cannot be zero. No Exceptions are expected.

3. What is the purpose of using Toast.

Android Toast can be used to display information for the short period of time.

A toast contains message to be displayed quickly and disappears after sometime.

Example: We used a toast to tell the user to fix form input errors.

4. What are the purpose of using Options Menu in the lab.

We used the option feature to allow the user to choose different actions such as sharing, calling the doctor or displaying health advice.

The menu was used on the Advice activity only.

5. Explain the purpose of modifications that were made in Manifest file

We added new permissions that allow using the call feature

**<uses-permission android:name="android.permission.CALL\_PHONE" />**

We added a splash screen information

**android:theme="@style/splashScreenTheme"**

We also made activity Register and Advice to only be displayed in portrait mode because on rotation, some information were hidden from the view,

**android:screenOrientation="portrait"**