FACULTY OF COGNITIVE SCIENCE AND HUMAN DEVELOPMENT

Semester 2, Session 2020/2021

KMK3433

Mobile Computing

Report

Pair Assignment (10%)

Group: 01

Lecture Name: Dr. Rehman Ullah Khan

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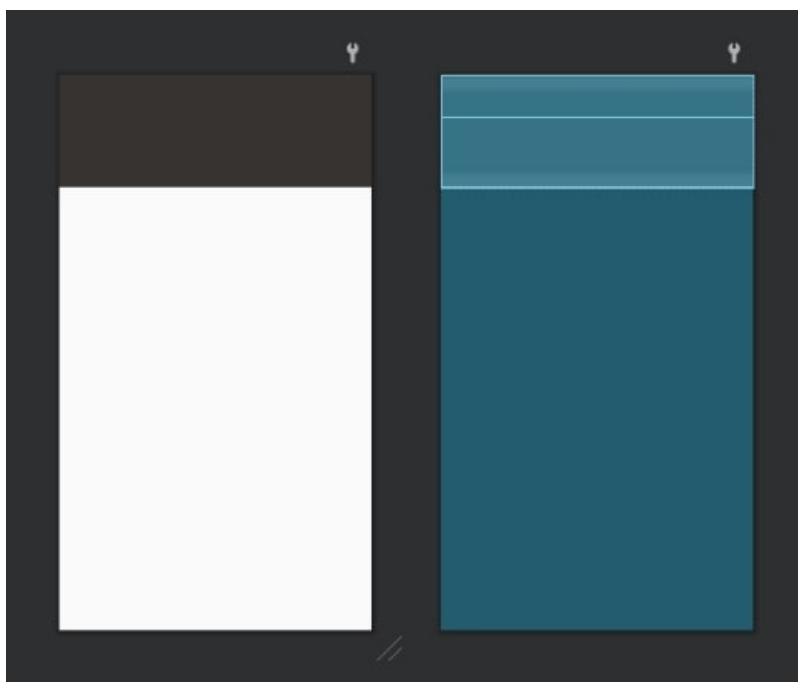| Name	Matrix No.
Lyana Syakila binti Mohd Hadi	66533
Iffah Zulaikha binti Effendy	66155

Layout

Coding for input layout

```
<TextView
    android:id="@+id/tvInput"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="30sp"
    android:gravity="end"
    android:fontFamily="@font/g_light"
    android:textColor="@color/white"
    android:background="@color/black"
    android:padding="10dp"
    android:text=""/>
```

Coding for output layout

```
<TextView
    android:id="@+id/tvOutput"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="60sp"
    android:gravity="end"
    android:fontFamily="@font/g_light"
    android:textColor="@color/white"
    android:background="@color/black"
    android:padding="10dp"
    android:text=""/>
```

Design Layout (input_layout.xml)

Main Activity

Coding for the calculator

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:orientation="vertical"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <include
        layout="@layout/input_layout"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"/>

    <RelativeLayout
        android:layout_width="match_parent"
        android:gravity="bottom"
        android:background="@color/black"
        android:layout_height="match_parent">


        <include
            layout="@layout/buttons"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"/>
    </RelativeLayout>
</LinearLayout>
```
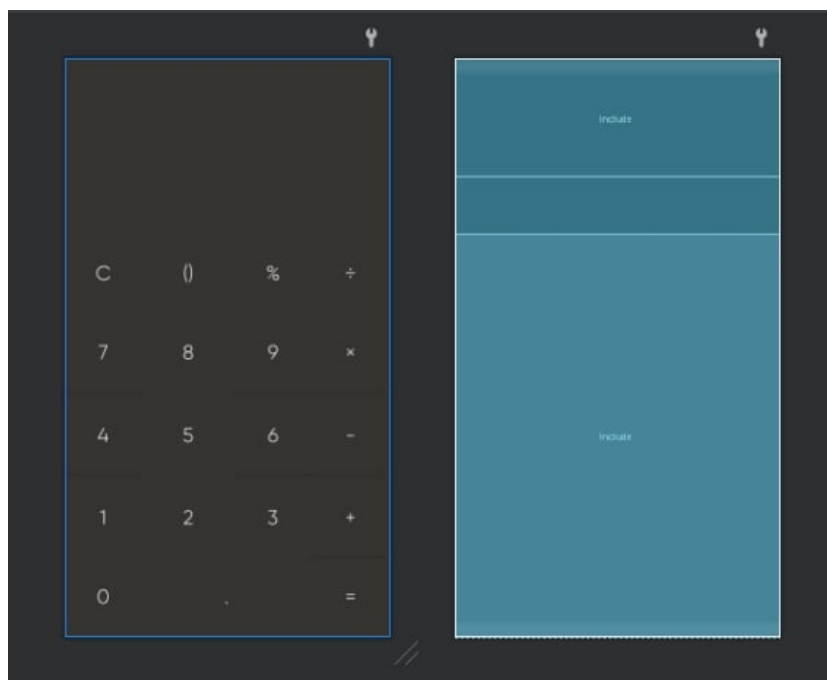
In this coding, coding for input and output layout are combine together with the button coding.

Design Layout (activity_main.xml)

Buttons

Coding for number 0 until 9 button

```xml
<Button
    android:id="@+id/btn7"
    android:layout_width="wrap_content"
    android:layout_height="100dp"
    android:text="7"
    android:fontFamily="@font/g_light"
    android:textSize="25sp"
    android:layout_columnWeight="1"
    android:textColor="@color/white"
    android:background="@color/black"
    android:layout_row="1"
    android:layout_column="0"/>
```

Coding for clear (C) button

```xml
<Button
    android:id="@+id/btnClear"
    android:layout_width="wrap_content"
    android:layout_height="100dp"
    android:text="C"
    android:fontFamily="@font/g_light"
    android:textSize="25sp"
    android:layout_columnWeight="1"
    android:textColor="@color/white"
    android:background="@color/black"
    android:layout_row="0"
    android:layout_column="0"/>
```

Coding for bracket (()) button

```xml
<Button
    android:id="@+id/btnBracket"
    android:layout_width="wrap_content"
    android:layout_height="100dp"
    android:text="()"
    android:fontFamily="@font/g_light"
    android:textSize="25sp"
    android:layout_row="0"
    android:layout_column="1"
    android:layout_columnWeight="1"
    android:background="@color/black"
    android:textColor="@color/white"/>
```

Coding for percent (%) button

```xml
<Button
    android:id="@+id/btnPercent"
    android:layout_width="wrap_content"
    android:layout_height="100dp"
    android:text="%"
    android:textSize="25sp"
    android:fontFamily="@font/g_light"
    android:layout_row="0"
    android:layout_column="2"
    android:layout_columnWeight="1"
    android:background="@color/black"
    android:textColor="@color/white"/>
```

Coding for division (÷) button

```xml
<Button
    android:id="@+id/btnDivision"
    android:layout_width="wrap_content"
    android:layout_height="100dp"
    android:text="÷"
    android:textSize="25sp"
    android:fontFamily="@font/g_light"
    android:layout_row="0"
    android:layout_column="3"
    android:layout_columnWeight="1"
    android:background="@color/black"
    android:textColor="@color/white"/>
```

Coding for multiply (x) button

```xml
<Button
    android:id="@+id/btnMultiply"
    android:layout_width="wrap_content"
    android:layout_height="100dp"
    android:text="x"
    android:textSize="25sp"
    android:fontFamily="@font/g_light"
    android:layout_row="1"
    android:layout_column="3"
    android:layout_columnWeight="1"
    android:background="@color/black"
    android:textColor="@color/white"/>
```

Coding for minus (-) button

```xml
<Button
    android:id="@+id/btnMinus"
    android:layout_width="wrap_content"
    android:layout_height="100dp"
    android:text="-"
    android:textSize="25sp"
    android:layout_row="2"
    android:fontFamily="@font/g_light"
    android:layout_column="3"
    android:layout_columnWeight="1"
    android:background="@color/black"
    android:textColor="@color/white"/>
```

Coding for add (+) button

```xml
<Button
    android:id="@+id/btnPlus"
    android:layout_width="wrap_content"
    android:layout_height="100dp"
    android:text="+"
    android:fontFamily="@font/g_light"
    android:textSize="25sp"
    android:layout_row="3"
    android:layout_column="3"
    android:layout_columnWeight="1"
    android:background="@color/black"
    android:textColor="@color/white"/>
```

Coding for dot (.) button

```xml
<Button
    android:id="@+id/btnDot"
    android:layout_width="wrap_content"
    android:layout_height="100dp"
    android:text="."
    android:fontFamily="@font/g_light"
    android:layout_columnSpan="2"
    android:textSize="25sp"
    android:layout_row="4"
    android:layout_column="1"
    android:layout_columnWeight="1"
    android:background="@color/black"
    android:textColor="@color/white"/>
```

Coding for equal (=) button

```xml
<Button
    android:id="@+id/btnEqual"
    android:layout_width="wrap_content"
    android:layout_height="100dp"
    android:text="="
    android:fontFamily="@font/g_light"
    android:textSize="25sp"
    android:layout_row="4"
    android:layout_column="3"
    android:layout_columnWeight="1"
    android:background="@color/orange"
    android:textColor="@color/white"/>
```

Design Layout (buttons.xml)