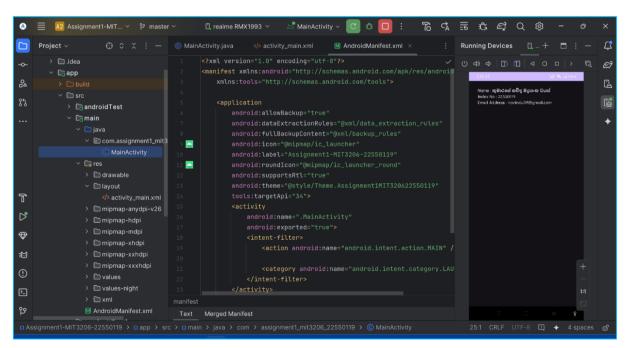


- Course Module: MIT3206 Mobile Computing
- **Course Lecturer : Senior Lecturer Gihan P. Seneviratne Sir**
- Assignment 1 : Display Name, Index Number, Email Address in Android App
- Assignment 1 Google Drive Uploaded Link:
 https://drive.google.com/drive/folders/1AY00Jz2eVyp0PxGmC-WU17p2dqLBms3P?usp=sharing
- GitHub Private Repository Link:
 https://github.com/NavinduMadusanka/Assignment1-MIT3206-22550119.git

Student Name: K.N.M. Dias

❖ Student Index No : 22550119

Student Registration No : 2022/MIT/011



Assignment1-MIT3206-22550119



Assignment 1: Display Name, Index Number, Email Address in Android App

Below is a summary of what I have learned and focused on in this assignment.

1. Android Components

API level

Android Version	API Level	Version Name
Android 7.0	24	Nougat

Classes

The AppCompatActivity class is used in this assignment.

This is a compatibility library that back ports some features of recent versions of Android to older devices.

Methods

The onCreate() method is used in this assignment.

It is functioned when an activity is loaded.

Permissions

No special permissions have been granted for this project.

2. Outline of approach to develop the application

Design Issues

At first it was difficult to enter the Sinhala text.

• Tips

I have included the Sinhala Unicode software (Sinhala / Tamil Kit provided by ICTA) to make it easier to enter Sinhala text.

tools:targetApi="34" in AndroidMainfest.xml



Warnings

The following warnings appeared.

- Hardcoded string "Name : කුමාරලග් නවිඳු මදුස∘ක ඩයස්", should use @string resource
- Hardcoded string "Index No : 22550119", should use @string resource
- Hardcoded string "Email Address : navindu09@gmail.com", should use
 @string resource

These are few warnings. But the function is working as properly.

3. Layout & Attributes

ConstraintLayout

ConstraintLayout is a layout on Android that gives adaptable and flexible ways to create views for apps.

ConstraintLayout, which is now the default layout in Android Studio, gives you many ways to place objects.

We can constrain them to their container, to each other.

Layout Attributes

There are few common attributes among all the layouts and there are other attributes which are specific to that layout.

Following are common attributes and applied to the layout.

No	Attribute	Attribute & Description
1	android:layout_width="match_parent"	This is used to define width or height of a view in devices
2	android:layout_height="match_parent"	full screen horizontally or vertically.



3	<textview< th=""><th>TextView is used to set and display the text. It can be change on our requirements. The TextView control like as a label control. Users can't to edit the text with TextView control.</th></textview<>	TextView is used to set and display the text. It can be change on our requirements. The TextView control like as a label control. Users can't to edit the text with TextView control.
4	android:id="@+id/textView"	This is the ID in textview which uniquely identifies the view.
5	android:layout_width="wrap_content"	That's mean the view to size itself to the size required by its content both of width & height.
6	android:layout_height="wrap_content"	
7	android:text="Index No : 22550119"	That means it is a hard code value stored in the textview.
8	app:layout_constraintBottom_toBottomOf="parent"	Align the bottom of the desired view to the bottom of another.
9	app:layout_constraintTop_toTopOf="parent"	Align the left of the desired view to the top of another.



4. Running the Application on my android mobile device

I was running the android app for testing in my android mobile device.

My android mobile device is Realme X2 RMX1993.

Below is a Screenshot of my android mobile device (Realme X2 RMX1993) while the app was running.

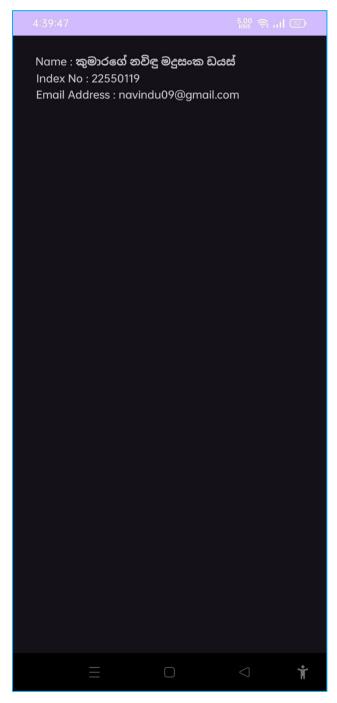


Photo : Assignment1-MIT3206-22550119 in Realme X2 RMX1993



5. Main Coding files

MainActivity.java

```
package com.assignment1_mit3206_22550119;
import android.os.Bundle;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
  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:id="@+id/main"
  android:layout width="match parent"
  android:layout height="match parent"
  tools:context=".MainActivity"
  tools:layout editor absoluteX="0dp"
  tools:layout editor absoluteY="5dp">
  <TextView
    android:id="@+id/textView1"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Name : කුමාරගේ නවිදු මදුසංක ඩයස්"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout constraintHorizontal bias="0.201"
    android:textStyle="bold"
    app:layout constraintLeft toLeftOf="parent"
    app:layout constraintRight toRightOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout constraintVertical bias="0.03" />
```



```
android:id="@+id/textView2"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Index No: 22550119"
    android:textStyle="bold"
    app:layout constraintBottom toBottomOf="parent"
    app:layout_constraintHorizontal bias="0.113"
    app:layout constraintLeft toLeftOf="parent"
    app:layout constraintRight toRightOf="parent"
    app:layout_constraintTop toTopOf="parent"
    app:layout constraintVertical bias="0.058" />
  <TextView
    android:id="@+id/textView3"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:textStyle="bold"
    android:text="Email Address: navindu09@gmail.com"
    app:layout constraintBottom toBottomOf="parent"
    app:layout constraintHorizontal bias="0.212"
    app:layout constraintLeft toLeftOf="parent"
    app:layout constraintRight toRightOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout constraintVertical bias="0.085" />
</androidx.constraintlayout.widget.ConstraintLayout>
      AndroidMainfest.xml
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  xmlns:tools="http://schemas.android.com/tools">
  <application
    android:allowBackup="true"
    android:dataExtractionRules="@xml/data extraction rules"
    android:fullBackupContent="@xml/backup rules"
    android:icon="@mipmap/ic launcher"
    android:label="Assignment1-MIT3206-22550119"
    android:roundlcon="@mipmap/ic_launcher_round"
    android:supportsRtl="true"
```

android:theme="@style/Theme.Assignment1MIT320622550119"

tools:targetApi="34">

<activity

<TextView

