Mobile Development Class Work 1

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INFT 3101 – 02: Mobile Development

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| Android Studio Emulator | BlueStacks Emulator |
| A screenshot of a phone  Description automatically generated | A screenshot of a computer  Description automatically generated |

# Source Code

## XML

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout 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">  
  
 <!-- Name TextView -->  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="@drawable/background"  
 android:orientation="vertical" />  
  
 <TextView  
 android:id="@+id/nameTextView"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="16dp"  
 android:text="@string/name\_ramiyan\_gangatharan"  
 android:textAlignment="center"  
 android:textColor="@color/white"  
 android:textSize="24sp"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <!-- Class TextView -->  
 <TextView  
 android:id="@+id/classTextView"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="8dp"  
 android:text="@string/class\_mobile\_development"  
 android:textColor="@color/white"  
 android:textSize="24sp"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@id/nameTextView" />  
  
 <!-- Section TextView -->  
 <TextView  
 android:id="@+id/sectionTextView"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="8dp"  
 android:text="@string/section\_202443\_13031"  
 android:textColor="@color/white"  
 android:textSize="24sp"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@id/classTextView" />  
  
 <!-- My Favourite Quote Label -->  
 <TextView  
 android:id="@+id/quoteLabelTextView"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="8dp"  
 android:text="@string/my\_favourite\_quote"  
 android:textColor="@color/white"  
 android:textSize="24sp"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@id/sectionTextView" />  
  
 <!-- Quote Content -->  
 <TextView  
 android:id="@+id/quoteTextView"  
 android:layout\_width="0dp"  
 android:layout\_height="0dp"  
 android:layout\_marginStart="10dp"  
 android:layout\_marginTop="8dp"  
 android:layout\_marginEnd="10dp"  
 android:layout\_marginBottom="16dp"  
 android:text="@string/\_39\_we\_don\_39\_t\_read\_and\_write\_poetry\_because\_it\_39\_s\_cute\_we\_read\_and\_write\_poetry\_because\_we\_are\_members\_of\_the\_human\_race\_and\_the\_human\_race\_is\_filled\_with\_passion\_and\_medicine\_law\_business\_engineering\_these\_are\_noble\_pursuits\_and\_necessary\_to\_sustain\_life\_but\_poetry\_beauty\_romance\_love\_these\_are\_what\_we\_stay\_alive\_for\_n\_nto\_quote\_from\_whitman\_o\_me\_o\_life\_of\_the\_questions\_of\_these\_recurring\_of\_the\_endless\_trains\_of\_the\_faithless\_of\_cities\_filled\_with\_the\_foolish\_what\_good\_amid\_these\_o\_me\_o\_life\_n\_nanswer\_that\_you\_are\_here\_that\_life\_exists\_and\_identity\_that\_the\_powerful\_play\_goes\_on\_and\_you\_may\_contribute\_a\_verse\_that\_the\_powerful\_play\_goes\_on\_and\_you\_may\_contribute\_a\_verse\_what\_will\_your\_verse\_be\_39"

android:textColor="@color/white"  
 android:textSize="18sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="1.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@id/quoteLabelTextView"  
 app:layout\_constraintVertical\_bias="1.0" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

## Java

package com.example.cw1\_app;  
  
import android.os.Bundle;  
  
import androidx.activity.EdgeToEdge;  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.core.graphics.Insets;  
import androidx.core.view.ViewCompat;  
import androidx.core.view.WindowInsetsCompat;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 EdgeToEdge.enable(this);  
 setContentView(R.layout.activity\_main);  
 ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {  
 Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());  
 v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);  
 return insets;  
 });  
 }  
}

# Reflection

This “lab” was quite straightforward as the syntax used in Android Studio was Java and XML. The IDE was like using Visual Studio 2022 with the .NET Framework for desktop applications. The learning curve started when we had to modify the XML to set screen spacing and constraints settings. The next challenge was to use an external emulator for the project as I had to go to stack overflow to figure out the right command and file path to get an IP address to plug in to connect to Bluestacks.