Experiment 2.1

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Branch: B.E. CSE   **Section/Group:** KRG_CC-1/B

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Subject Name: MAD LAB   **Subject Code:** 21CSH-355

1. **Aim:** Create an application that takes the name from a "Text Box" and shows a "Hello" message along with the name entered in the "Text Box" when the user clicks the "OK" button

2. **Objective:** Setting up Android Studio and configuring a basic Android project. Compiling and running a simple Android application on an emulator or a physical device.

3. **Source Code:**
   MainActivity.java

```java
package com.example.exp2_1;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity extends
AppCompatActivity {

    @Override
    protected void onCreate(Bundle
savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        EditText editTextName =
findViewById(R.id.editTextName);
        Button buttonOK =
findViewById(R.id.buttonOK);
        TextView textViewHello =
findViewById(R.id.textViewHello);
```

```java
                buttonOK.setOnClickListener(new
View.OnClickListener() {
                    @Override
                    public void onClick(View view) {
                        String names =
editTextName.getText().toString();
                        String helloMessage = "Hello, "
+ names + "!";

textViewHello.setText(helloMessage);
                    }
                });
        }
}
```

activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout

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:layout_height="match_parent"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/editTextName"
        android:layout_width="300dp"
        android:layout_height="50dp"
        android:layout_centerInParent="true"
        android:gravity="center"
        android:hint="@string/enter_your_name"
        android:textSize="18sp"/>
    <Button
        android:id="@+id/buttonOK"
        android:layout_width="200dp"
        android:layout_height="50dp"
        android:layout_below="@id/editTextName"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="16dp"
        android:text="@string/ok"
        android:textSize="18sp"/>
```

```xml
    <TextView
        android:id="@+id/textViewHello"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/buttonOK"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="16dp"
        android:textSize="18sp" />

</RelativeLayout>
```

Running Devices   Pixel 2   ×

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Rohan Jaiswal

OK

Hello, Rohan Jaiswal