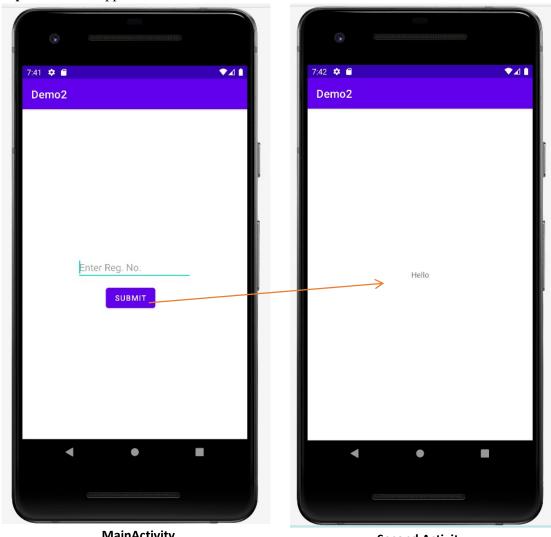
MOBIL APP DEVELOPMENET LAB

WEEK 3b: Create "Say Hello" App using Intent with Object

Objective: Implementation of Intent with Object to create "Say Hello" App

PROCEDURE:

- Step 1: Open Android Studio
- Step 2: In the main Welcome to Android Studio window, click New Project
- **Step 3:** choose Empty Activity
- Step 4: Enter Project Details
- **Step 5:** Create Student.java Class
- **Step 6:** Write the Code to implement Button Click Event in MainActivity
- **Step 7:** Create SecondActivity to Receive Message from MainActivity
- **Step 8:** Create and Select Android Virtual Device (Emulator)
- Step 9: Run the App on the Virtual Device



MainActivity **Second Activity**

Phase 1: Create Hello World App

Procedure:

Step 5: Create Student Class
Open Student.java → Write Code
package com.example.demo2;
import java.io.Serializable;
public class Student implements Serializable {
public String name;

Step 6: Design UI in MainActivity

6a. Open activity main.xml → Select Design View → Add Widgets – EditText and Button

Widget	id	Other Attributes
EditText	editTextName	id="@+id/editTextName"
		hint="Enter Name"
		inputType="text"
Button	btnSubmit	id="@+id/btnSubmit"
		layout_marginTop="8dp"
		onClick="SayHello"
		text="Say Hello"

```
<?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:layout width="match parent"
   android:layout height="match parent"
    tools:context=".MainActivity">
    <EditText
        android:id="@+id/editTextName"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:ems="10"
        android:hint="Enter Name"
        android:inputType="text"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"/>
    <Button
        android:id="@+id/btnSubmit"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:onClick="SayHello"
        android:text="Submit"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
```

```
app:layout constraintTop toTopOf="parent"
        app:layout_constraintVertical_bias="0.60" />
</androidx.constraintlayout.widget.ConstraintLayout>
6b. Open MainActivity.java and write Code
package com.example.demo2;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
    public void SayHello(View view) {
        EditText editTextName;
        editTextName = findViewById(R.id.editTextName);
        Student student = new Student();
        student.name = editTextName.getText().toString();
        Intent intent = new Intent(MainActivity.this, SecondActivity.class);
        intent.putExtra("KEY", student);
        startActivity(intent);
}
```

app:layout constraintStart toStartOf="parent"

7a. Open activity second.xml → Select Design View → Add Widgets – TextView

Widget	id	Other Attributes
TextView	textReceived	id="@+id/textReceived " text="Hi"

```
<?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:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".SecondActivity">

    <TextView
        android:id="@+id/textReceived"
        android:layout_width="wrap_content"</pre>
```

```
android:layout height="wrap content"
        android:text="TextView"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
7b. Open SecondActivity.java and write Code
package com.example.demo2;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;
public class SecondActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity second);
        Intent intent = getIntent();
        Student student = (Student) intent.getSerializableExtra("KEY");
        TextView textReceived = findViewById(R.id.textReceived);
        textReceived.setText(student.name);
}
```