

Experiment 1.2

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Branch: CSE

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Subject Name: Mobile Application Development with
Lab

UID: 21BCS2856

Section: 21BCS_KRG-CC-1-B

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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:**

The Main Activity File:

```
package com.rohan.exp2;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    private EditText nameInput;
    private Button greetButton;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        nameInput = findViewById(R.id.nameInput);
        greetButton = findViewById(R.id.greetButton);
    }

    public void Ok(View view){
        String name =nameInput.getText().toString();
```

```
        Intent intent = new Intent(this, Greet.class);
        intent.putExtra("name", name);
        startActivity(intent);
        Toast.makeText(this, "Loading", Toast.LENGTH_SHORT).show();
    }
}
```

The Main Activity Layout File:

```
<?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"
    android:layout_marginTop="60dp"
    tools:context=".MainActivity">
    <TextView
        android:id="@+id/userMessage"
        android:layout_width="182dp"
        android:layout_height="45dp"
        android:layout_marginTop="60dp"
        android:text="@string/enter_your_name"
        android:textAlignment="center"
        android:gravity="center_horizontal"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
    <EditText
        android:id="@+id/nameInput"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="30dp"
        android:ems="10"
        android:inputType="text"
        android:text=""
        android:hint="@string/abc"
        android:textAlignment="center"
        android:gravity="center_horizontal"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/userMessage" />
```

```
<Button
    android:id="@+id/greetButton"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="30dp"
    android:onClick="Ok"
    android:text="@string/ok_message"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/nameInput" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

The Greet Activity File:

```
package com.rohan.exp2;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;

public class Greet extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_greet);
        Intent intent = getIntent();
        String message = intent.getStringExtra("name");
        TextView greetingTextView = findViewById(R.id.greetView);
        if (message != null) {
            greetingTextView.setText("Hello " + message);
        } else {
            greetingTextView.setText("Invalid Name"); // Default message if "name" is
not provided
        }
    }
}
```

The Greet Activity Layout File:

```
<?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=".Greet">  
<TextView  
    android:id="@+id/greetView"  
    android:layout_width="wrap_content"  
    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>
```

4. Output:

