

## Experiment No. - 4

**Student Name: Vivek Kumar**

**Branch: BE-CSE(LEET)**

**Semester: 6<sup>th</sup>**

**Subject Name: Mobile Application Development Lab**

**UID: 21BCS8129**

**Section/Group:20BCS-ST-801/B**

**Date of Performance: 14/02/2023**

**Subject Code: 20CSP-356**

### 1. Aim:

Creating the Application by using Text Edit control

### 2. Objective:

- Understanding of the interactions between user interface and underlying application infrastructure.
- (Create an application that takes the name from a text box and shows hello message along with the name entered in text box, when the user clicks the OK button.)

### 3. System Requirements:

- Microsoft Windows 7/8/10 (32-bit or 64-bit)
- 4 GB RAM minimum, 8 GB RAM recommended (plus 1 GB for the Android Emulator)
- 2 GB of available disk space minimum, 4 GB recommended (500 MB for IDE plus 1.5 GB for Android SDK and emulator system image)
- 1280 x 800 minimum screen resolution
- Java JDK5 or later version
- Java Runtime Environment (JRE) 6 Android Studio

### 4. Steps/Program:

#### activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="20dp"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/nameEditText"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter your name" />

    <EditText
        android:id="@+id/messageEditText"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter your message" />
```

```
<Button
    android:id="@+id/okButton"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="OK" />

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:gravity="center">

    <TextView
        android:id="@+id/textView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textStyle="bold"
        android:textAppearance="?android:textAppearanceLarge" />
</LinearLayout>

</LinearLayout>
```

### **MainActivity.java**

```
package in.innovateria.ws4application;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    EditText nameEditText,messageEditText;
    Button okButton;
    TextView textView;

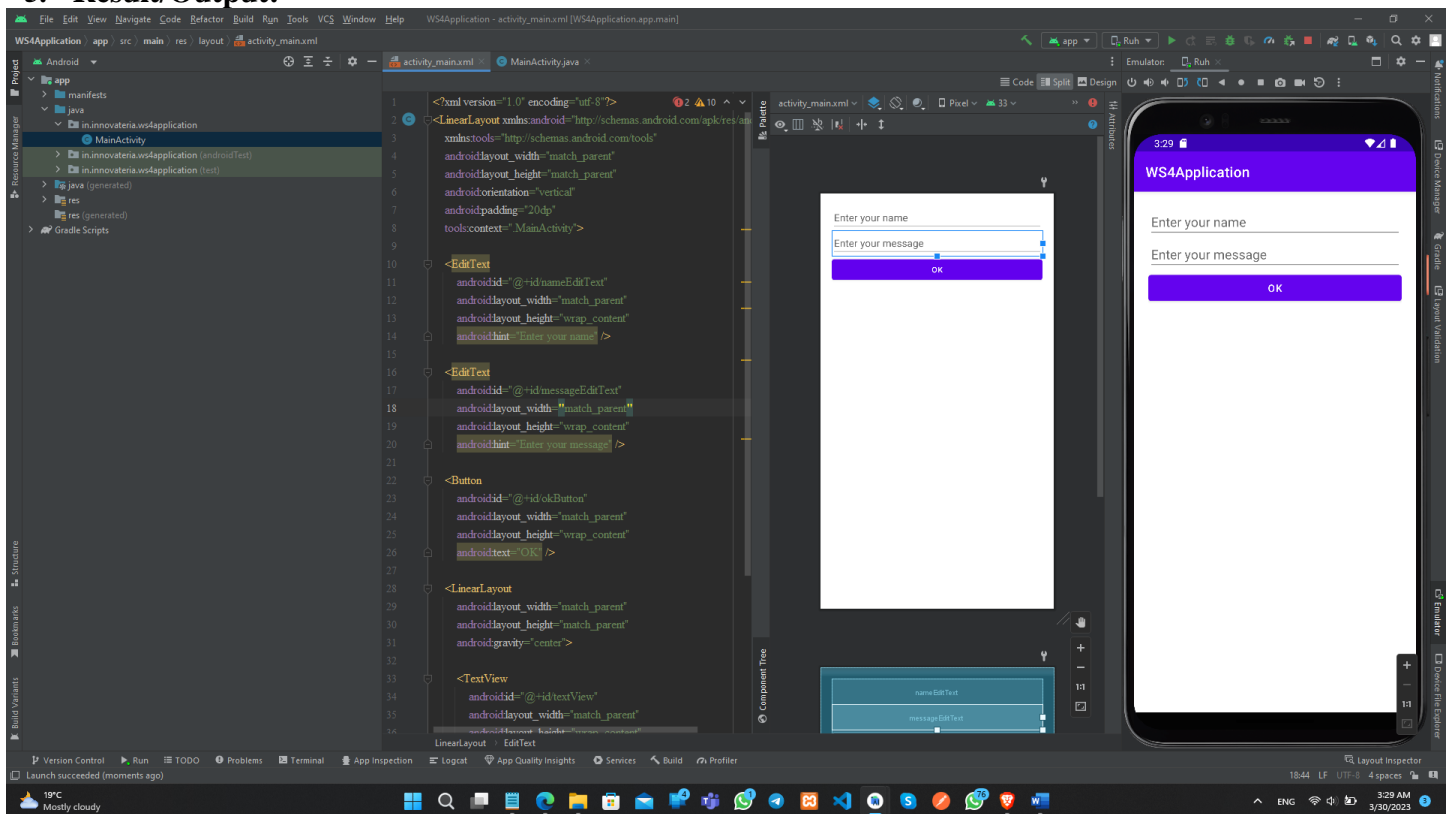
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        nameEditText=findViewById(R.id.nameEditText);
        messageEditText=findViewById(R.id.messageEditText);
        okButton=findViewById(R.id.okButton);
        textView=findViewById(R.id.textView);
    }
}
```

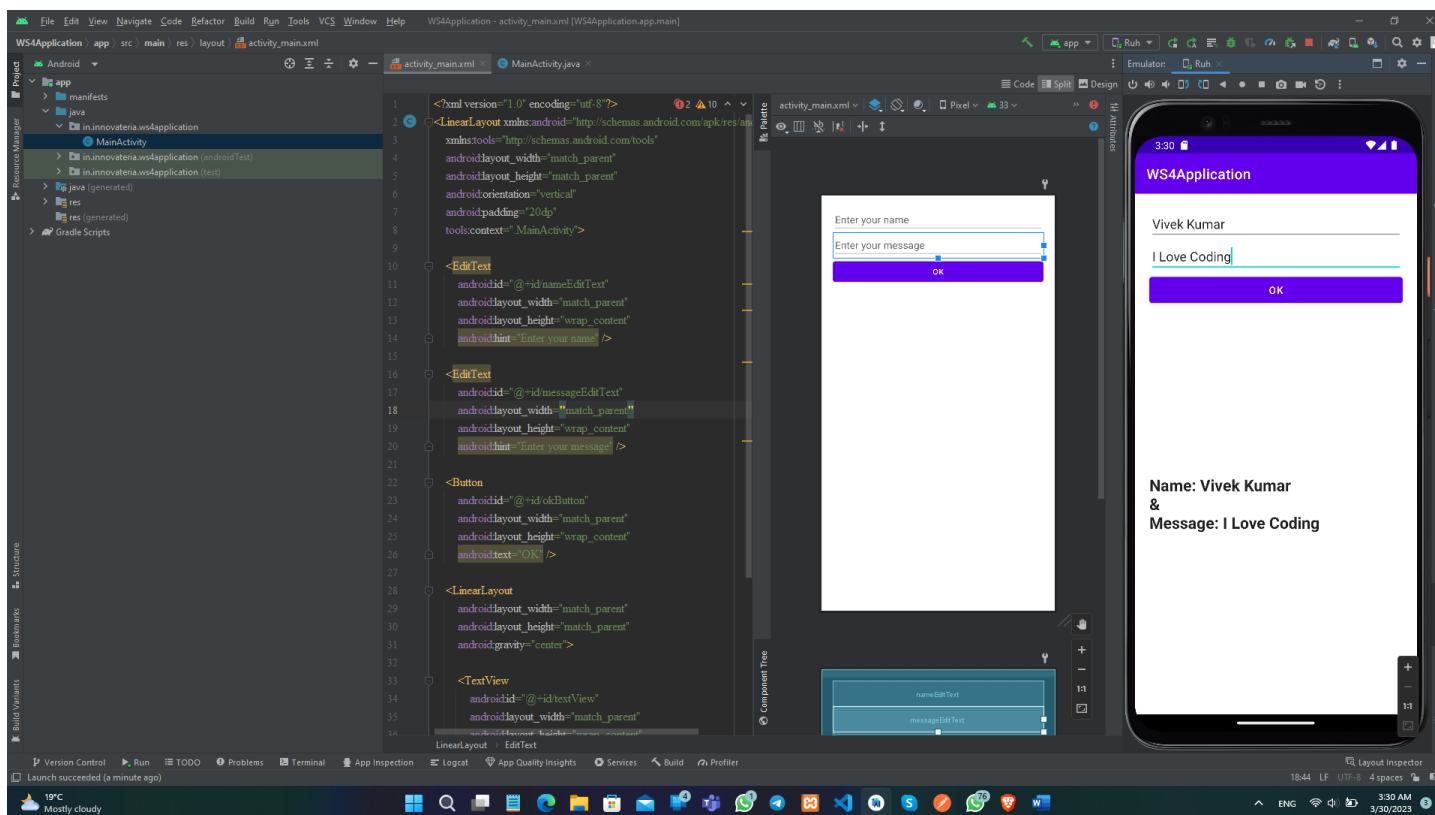
```

okButton.setOnClickListener(v->{
    if(!nameEditText.getText().toString().isEmpty()&&!messageEditText.getText().toString().isEmpty()){
        textView.setText("Name: "+nameEditText.getText().toString().trim()+" \n&\nMessage: "+mes-
sageEditText.getText().toString().trim());
    }else {
        Toast.makeText(this, "Please Enter The Both Fields", Toast.LENGTH_SHORT).show();
    }
});
}
}

```

## 5. Result/Output:





### Learning outcomes (What I have learnt):

- To design an android application which uses EditText in android studio.
- Learnt about running application on android studio.

### Evaluation Grid (To be created per the faculty's SOP and Assessment guidelines):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Worksheet completion including writing learning objectives/Outcomes. (To be submitted at the end of the day).		
2.	Post-Lab Quiz Result.		
3.	Student Engagement in Simulation/Demonstration/Performance and Controls/Pre-Lab Questions.		
	Signature of Faculty (with Date):	Total Marks Obtained:	