

Experiment 6

Student Name: Kanishk Soni

UID: 20BCS9398

Branch: B.E CSE

Section/Group: 20BCS_DM_708_B

Subject Name: MAD Lab

Aim: 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.

Objective: Understanding of the interactions between user interface and underlying application infrastructure. Creating the Application by using Text Edit control.

Program

MainActivity.java

```
package com.example.sendmsg;

import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.content.Intent;
import android.content.pm.PackageManager;
import android.net.Uri;
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 {

    EditText phone, message;

    Button sendbtn;

    String messagestr, phonestr = "";

    @SuppressWarnings("MissingInflatedId")

    @Override
```

```
protected void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    setContentView(R.layout.activity_main);  
    phone = findViewById(R.id.phoneNo);  
    message = findViewById(R.id.message);  
    sendbtn = findViewById(R.id.sendbtn);  
    sendbtn.setOnClickListener(new View.OnClickListener() {  
        @Override  
        public void onClick(View v) {  
            messagestr = message.getText().toString();  
            phonestr = phone.getText().toString();  
            if (!messagestr.isEmpty() && !phonestr.isEmpty()) {  
                phonestr = "7015786675";  
                if (isWhatsappInstalled()) {  
                    Intent i = new Intent(Intent.ACTION_VIEW,  
                        Uri.parse("https://api.whatsapp.com/send?phone=" + phonestr +  
                            "&text=" + messagestr));  
                    startActivity(i);  
                    message.setText("");  
                    phone.setText("");  
                } else {  
                    Toast.makeText(MainActivity.this, "whatsapp is not installed",  
                        Toast.LENGTH_SHORT).show();  
                }  
            } else {  
                Toast.makeText(MainActivity.this, "please enter the Phone number and  
enter the text", Toast.LENGTH_LONG).show();  
            }  
        }  
    }  
}
```

```
        });  
  
    }  
  
    private boolean isWhatsappInstalled() {  
        PackageManager packageManager =  
            getPackageManager();  
        boolean whatsappInstalled;  
        try {  
            packageManager.getPackageInfo("com.whatsapp", PackageManager.GET_ACTIVITIES);  
            whatsappInstalled = true;  
        } catch (PackageManager.NameNotFoundException e) {  
            whatsappInstalled = false;  
        }  
        return true;  
    }  
}
```

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>  
  
<LinearLayout 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:orientation="vertical"  
    android:padding="10dp"  
    tools:context=".MainActivity">  
  
    <TextView  
        android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
android:layout_gravity="center_horizontal"
android:layout_marginTop="50dp"
android:text="@string/welcome_to_message_sender"
android:textColor="@color/black"
android:textSize="20sp"
android:textStyle="bold" />
```

<EditText

```
android:id="@+id/phoneNo"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginHorizontal="16dp"
android:layout_marginVertical="20dp"
android:ems="10"
android:hint="@string/enter_phone"
android:inputType="phone" />
```

<EditText

```
android:id="@+id/message"
android:layout_width="match_parent"
android:layout_height="100dp"
android:layout_marginHorizontal="16dp"
android:ems="10"
android:hint="Message"
android:inputType="textMultiLine" />
```

<Button

```
android:id="@+id/sendbtn"
android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
```

```
android:layout_gravity="center"
```

```
android:layout_marginTop="32dp"
```

```
android:text="send" />
```

```
</LinearLayout>
```

OUTPUT

