Experiment 2.1

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1. **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.

2. Objective:

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

3. **Program**:

MainActivity.java

```
package com.example.messageintent;

import androidx.appcompat.app.AppCompatActivity;

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;

import com.hbb20.CountryCodePicker;

public class MainActivity extends AppCompatActivity {
    CountryCodePicker countryCodePicker;
    EditText phone,message;
    Button sendbtn;
    String messagestr,phonestr="";

    @Override
```

```java
    protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
        countryCodePicker=findViewById(R.id.countyCodePicker);
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()){
countryCodePicker.registerCarrierNumberEditText(phone);
phonestr = countryCodePicker.getFullNumber();

                if(isWhatappInstalled()){

                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 isWhatappInstalled(){
     PackageManager packageManager = getPackageManager();
boolean whatsappInstalled;
```

```
try{
        packageManager.getPackageInfo("com.whatsapp",PackageManager.GET_ACTIVITIES);
whatsappInstalled = true;
    }catch(PackageManager.NameNotFoundException e){

        whatsappInstalled=false;
    }

    return whatsappInstalled;

  }
```

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="Welcome to Message Sender"
android:textColor="@color/black"
android:textSize="20sp"
      android:textStyle="bold" />

   <com.hbb20.CountryCodePicker
android:id="@+id/countyCodePicker"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
      android:layout_marginTop="20dp" />

   <EditText
android:id="@+id/phoneNo"
android:layout_width="match_parent"
android:layout_height="wrap_content"
```

Output: