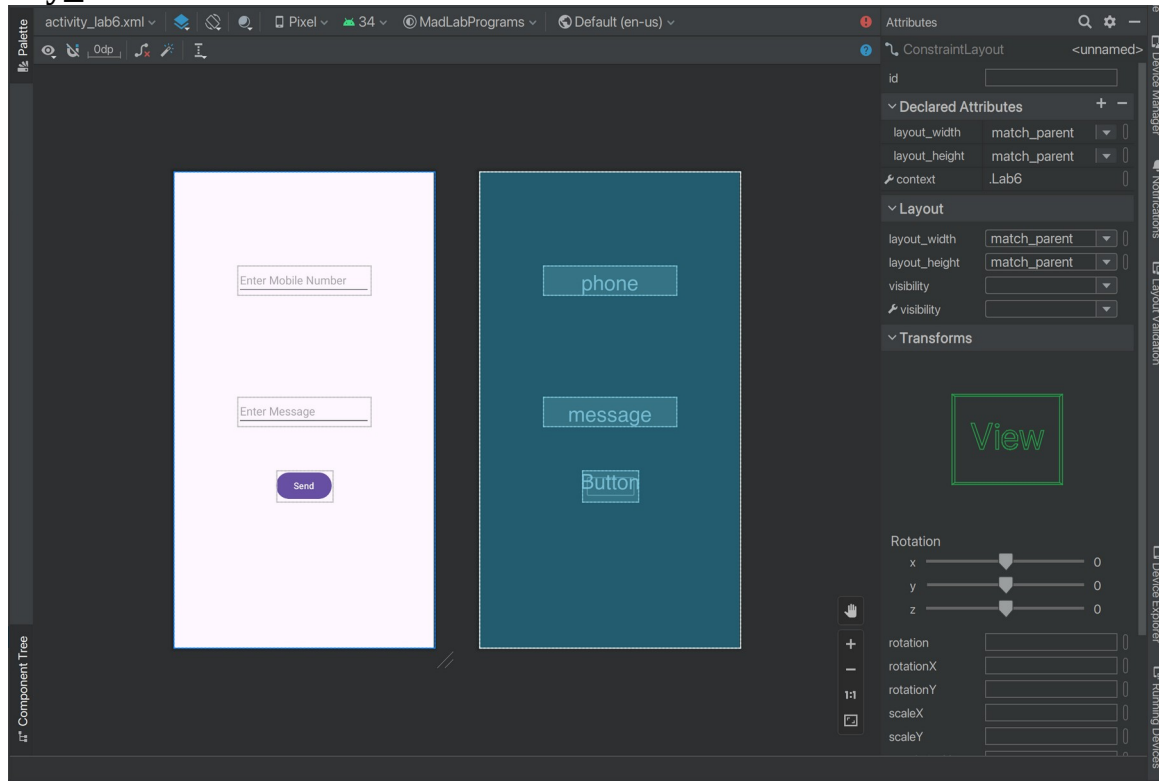


Program 6

Develop an application to send SMS to a particular contact from the Phonebook

Design

activity_main



Give permission

Paste the following in manifest file

```
<uses-feature android:name="android.hardware.telephony"
android:required="false"></uses-feature>
<uses-permission android:name="android.permission.SEND_SMS"></uses-
permission>
```

Xml Code

activity_main.xml

```
<EditText
    android:id="@+id/phone"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="100dp"
    android:layout_marginTop="144dp"
    android:layout_marginEnd="100dp"
    android:layout_marginBottom="156dp"
    android:ems="10"
    android:hint="Enter Mobile Number"
```

```

        android:inputType="phone"
        app:layout_constraintBottom_toTopOf="@+id/message"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

<EditText
    android:id="@+id/message"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="100dp"
    android:layout_marginEnd="100dp"
    android:layout_marginBottom="341dp"
    android:ems="10"
    android:hint="Enter Message"
    android:inputType="text"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent" />

<Button
    android:id="@+id/lab6_button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="160dp"
    android:layout_marginEnd="160dp"
    android:layout_marginBottom="225dp"
    android:text="Send"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent" />

```

Java Code

MainActivity.java

```

public class MainActivity extends AppCompatActivity {

    private static final int PICK_CONTACT_REQUEST = 1;

    Button btn;
    EditText phone, message;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_lab6);
        btn = findViewById(R.id.lab6_button);
        phone = findViewById(R.id.phone);
        message = findViewById(R.id.message);
    }
}

```

```

phone.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        // Open contacts app to pick a contact
        Intent pickContactIntent = new Intent(Intent.ACTION_PICK);

pickContactIntent.setType(ContactsContract.CommonDataKinds.Phone.CONTENT_TYPE);
        startActivityForResult(pickContactIntent, PICK_CONTACT_REQUEST);
    }
});

btn.setOnClickListener(v -> {
    try {
        SmsManager smsManager = SmsManager.getDefault();
        smsManager.sendTextMessage(phone.getText().toString(), null,
message.getText().toString(), null, null);
        Toast.makeText(this, "Send Message Successfully", Toast.LENGTH_SHORT).show();
    } catch (Exception e) {
        Toast.makeText(getApplicationContext(), e.toString(), Toast.LENGTH_SHORT).show();
    }
});
}

@Override
protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent data) {
    super.onActivityResult(requestCode, resultCode, data);
    if (requestCode == PICK_CONTACT_REQUEST && resultCode == RESULT_OK) {
        if (data != null) {
            // Retrieve the selected contact's phone number
            Cursor cursor = null;
            try {
                Uri contactUri = data.getData();
                cursor = getContentResolver().query(contactUri, null, null, null, null);
                if (cursor != null && cursor.moveToFirst()) {
                    int phoneIndex =
cursor.getColumnIndex(ContactsContract.CommonDataKinds.Phone.NUMBER);
                    String phoneNumber = cursor.getString(phoneIndex);
                    // Set the selected phone number to the EditText field
                    phone.setText(phoneNumber);
                }
            } finally {
                if (cursor != null) {
                    cursor.close();
                }
            }
        }
    }
}
}
}
}

```