**Slip19**

**Q1.Create an android application that on/off the bulb using Toggle Button**

**Xml file**

*<?*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"  
 tools:context=".MainActivity">  
  
 <ToggleButton  
 android:id="@+id/toggle\_button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"/>  
</LinearLayout>

**Java file**

package com.example.slip19bulbonoffapplication;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Toast;  
import android.widget.ToggleButton;  
  
public class MainActivity extends AppCompatActivity {  
 ToggleButton toggleButton;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 toggleButton=(ToggleButton)findViewById(R.id.*toggle\_button*);  
 toggleButton.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 if(((ToggleButton)view).isChecked()){  
 Toast.*makeText*(MainActivity.this, "Bulb is on", Toast.*LENGTH\_SHORT*).show();  
 }else {  
 Toast.*makeText*(MainActivity.this, "Bilb is off", Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
 });  
 }  
}

***Q2)***.**Create application to send SMS message. After sending message display delivery report of message.**

**Xml file**

*<?*xml version**="1.0"** encoding**="utf-8"***?>*<**RelativeLayout**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**=".MainActivity"**>  
  
<**TextView**android:id**="@+id/textView1"**android:layout\_width**="wrap\_content"**android:layout\_height**="wrap\_content"**android:layout\_alignParentTop**="true"**android:layout\_centerHorizontal**="true"**android:textSize**="30dp"** />  
  
<**TextView**android:id**="@+id/textView2"**android:layout\_width**="wrap\_content"**android:layout\_height**="wrap\_content"**android:textSize**="30dp"**android:layout\_below**="@+id/textView1"** />  
  
  
<**EditText**android:layout\_width**="wrap\_content"**android:layout\_height**="wrap\_content"**android:id**="@+id/editText"**android:hint**="Enter Phone Number"**android:layout\_centerHorizontal**="true"** />  
  
<**EditText**android:id**="@+id/editText2"**android:layout\_width**="wrap\_content"**android:layout\_height**="wrap\_content"**android:layout\_below**="@+id/editText"**android:layout\_centerHorizontal**="true"**android:hint**="Enter SMS"** />  
  
<**Button**android:layout\_width**="wrap\_content"**android:layout\_height**="wrap\_content"**android:text**="Send Sms"**android:id**="@+id/btnSendSMS"**android:layout\_below**="@+id/editText2"**android:layout\_centerHorizontal**="true"**android:layout\_marginTop**="48dp"** />  
  
</**RelativeLayout**>

***Main.java***

**public class** MainActivity**extends** AppCompatActivity{  
  
**private static final int** *MY\_PERMISSIONS\_REQUEST\_SEND\_MSG* = **0**;  
Button sendBtn;  
EditTexttxtphoneNo;  
EditTexttxtMessage;  
String phoneNo;  
String message;  
  
@Override  
**protected void** onCreate(Bundle savedInstanceState) {  
**super**.onCreate(savedInstanceState);  
setContentView(R.layout.*activity\_main*);  
  
sendBtn= (Button) findViewById(R.id.*btnSendSMS*);  
txtphoneNo= (EditText) findViewById(R.id.*editText*);  
txtMessage= (EditText) findViewById(R.id.*editText2*);  
  
sendBtn.setOnClickListener(**new** View.OnClickListener() {  
**public void** onClick(View view) {  
sendSMSMessage();  
 }  
 });  
 }  
  
**protected void** sendSMSMessage() {  
phoneNo= txtphoneNo.getText().toString();  
message = txtMessage.getText().toString();  
  
**if** (ContextCompat.*checkSelfPermission*(**this**,  
SEND\_MSG)  
 != PackageManager.*PERMISSION\_GRANTED*) {  
**if** (ActivityCompat.*shouldShowRequestPermissionRationale*(**this**,  
SEND\_MSG)) {  
 } **else** {  
ActivityCompat.*requestPermissions*(**this**,  
**new** String[]{Manifest.permission.SEND\_MSG},  
*MY\_PERMISSIONS\_REQUEST\_SEND\_MSG*);  
 }  
 }  
 }  
  
  
@Override  
**public void** onRequestPermissionsResult(**int** requestCode, String permissions[], **int**[] grantResults) {  
**super**.onRequestPermissionsResult(requestCode, permissions, grantResults);  
**switch** (requestCode) {  
**case** *MY\_PERMISSIONS\_REQUEST\_SEND\_MSG*: {  
**if** (grantResults.length>**0**&&grantResults[**0**] == PackageManager.*PERMISSION\_GRANTED*) {  
SmsManagersmsManager= SmsManager.*getDefault*();  
smsManager.sendTextMessage(phoneNo, **null**, message, **null**, **null**);  
Toast.*makeText*(getApplicationContext(), **"SMS sent."**,  
Toast.*LENGTH\_LONG*).show();  
 } **else** {  
Toast.*makeText*(getApplicationContext(),  
**"SMS faild, please try again."**, Toast.*LENGTH\_LONG*).show();  
**return**;  
 }  
 }  
 }  
  
 }  
  
**private class** SEND\_MSG {  
 }  
}

***manefiest file.xml***

*<?*xml version**="1.0"** encoding**="utf-8"***?>*<**manifest** xmlns:android**="http://schemas.android.com/apk/res/android"**xmlns:tools**="http://schemas.android.com/tools"**>  
<**uses-permission** android:name**="android.permission.SEND\_MSG"** />  
  
<**application**android:allowBackup**="true"**android:dataExtractionRules**="@xml/data\_extraction\_rules"**android:fullBackupContent**="@xml/backup\_rules"**android:icon**="@mipmap/ic\_launcher"**android:label**="@string/app\_name"**android:supportsRtl**="true"**android:theme**="@style/Theme.Slip19\_2"**tools:targetApi**="31"**>  
  
  
<**activity**android:name**=".MainActivity"**android:exported**="true"**>  
<**intent-filter**>  
<**action** android:name**="android.intent.action.MAIN"** />  
  
<**category** android:name**="android.intent.category.LAUNCHER"** />  
</**intent-filter**>  
  
</**activity**>  
  
</**application**>  
</**manifest**>