

DATE:**ALERT DIALOG BOX****AIM:**

Implement an application to display the alert box message.

PROCEDURE:

- Open Android Studio and import the package
- In activity_main.xml drag and drop the buttons
- The button needs to perform actions to change the colour, font size and background colour
- Click android virtual device that should control the toolbar
- Design the graphical layout with the textview and buttons
- Run the application
- The version of android and name is displayed
- The theme of the file is also mentioned in a file
- Run the file using the version which is displayed to the users.

PROGRAM CODE:**AndroidManifest.xml:**

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
package="com.example.smsalert">
<uses-permission android:name="android.permission.RECEIVE_SMS" />
<uses-permission android:name="android.permission.READ_SMS" />
<application
android:allowBackup="true"
android:icon="@mipmap/ic_launcher"
android:label="@string/app_name"
android:roundIcon="@mipmap/ic_launcher_round"
android:supportRtl="true"
android:theme="@style/AppTheme">
<activity android:name=".MainActivity">
<intent-filter>
<action android:name="android.intent.action.MAIN" />
<category android:name="android.intent.category.LAUNCHER" />
</intent-filter>
</activity>
<receiver
android:name=".SmsReceiver"
android:enabled="true"
android:exported="true">
<intent-filter android:priority="999">
<action android:name="android.provider.Telephony.SMS_RECEIVED" />
</intent-filter>
</receiver>
```

```
</application>
</manifest>
```

MainActivity.kt:

```
package com.example.smsalert
import android.os.Bundle
import androidx.appcompat.app.AppCompatActivity
class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
    }
}
```

SmsReceiver.kt:

```
package com.example.smsalert
import android.content.BroadcastReceiver
import android.content.Context
import android.content.Intent
import android.os.Build
import android.os.Bundle
import android.provider.Telephony
import android.telephony.SmsMessage
import androidx.appcompat.app.AlertDialog
class SmsReceiver : BroadcastReceiver() {
    override fun onReceive(context: Context, intent: Intent) {
        if (intent.action == Telephony.Sms.Intents.SMS_RECEIVED_ACTION) {
            val bundle = intent.extras
            if (bundle != null) {
                val pdus = bundle.get("pdus") as Array<Any>
                for (pdu in pdus) {
                    val smsMessage: SmsMessage = if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.M) {
                        SmsMessage.createFromPdu(pdu as ByteArray, bundle.getString("format"))
                    } else {
                        SmsMessage.createFromPdu(pdu as ByteArray)
                    }
                    val sender = smsMessage.originatingAddress
                    val message = smsMessage.messageBody
                    showSmsAlert(context, sender, message)
                }
            }
        }
    }

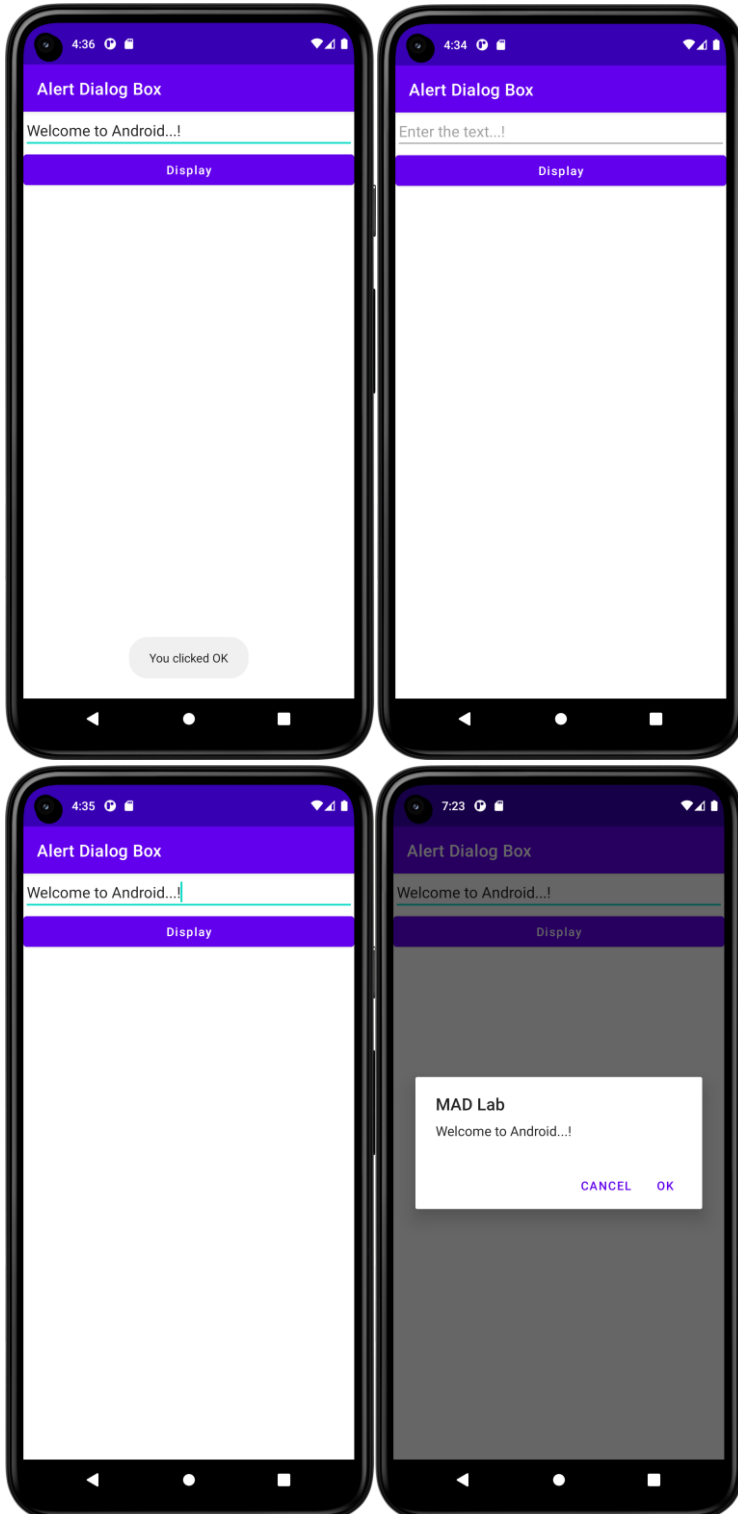
    private fun showSmsAlert(context: Context, sender: String?, message: String?) {
        val alertDialogBuilder = AlertDialog.Builder(context)
        alertDialogBuilder.setTitle("New SMS Received")
    }
}
```

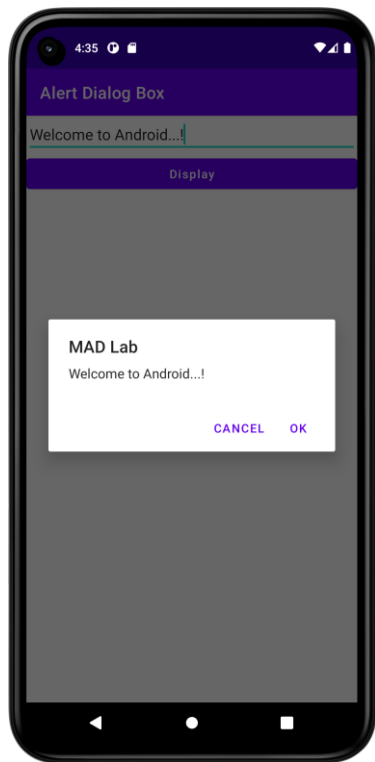
```

alertDialogBuilder.setMessage("From: $sender\nMessage: $message")
alertDialogBuilder.setPositiveButton("OK") { dialog, which ->
// Action to perform when OK button is clicked
dialog.dismiss()
}
val alertDialog = alertDialogBuilder.create()
alertDialog.show()
}
}

```

OUTPUT:





RESULT: