**Exp No.6**

**Rishab Mandal**

**Batch: C23**

**Code:**

activity\_main.xml

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="@android:color/white"  
 tools:context=".MainActivity">

<TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerHorizontal="true"  
 android:text="C23\nRishab Mandal\nRoll no: 2103110"  
 android:textColor="@android:color/black"  
 android:textSize="20sp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent" />

<Button  
 android:id="@+id/btnGenerateMessage"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Generate Message"  
 android:textColor="@android:color/white"  
 android:background="@drawable/rounded\_button\_background"  
 android:elevation="4dp"  
 android:padding="15dp"  
 android:layout\_centerInParent="true"/>  
  
</RelativeLayout>

Rounded\_button\_background.xml

<?xml version="1.0" encoding="utf-8"?>  
<shape xmlns:android="http://schemas.android.com/apk/res/android"  
 android:shape="rectangle">  
 <solid android:color="@color/red" />  
 <corners android:radius="20dp" />  
</shape>

colors.xml

<?xml version="1.0" encoding="utf-8"?>  
<resources>  
 <color name="black">#FF000000</color>  
 <color name="white">#FFFFFFFF</color>  
 <color name="red">#FF0000</color>  
 <color name="colorPrimary">#2196F3</color>  
</resources>

MainActivity.java

package com.example.alertapplication**;**import android.app.Activity**;**import android.app.AlertDialog**;**import android.content.DialogInterface**;**import android.os.Bundle**;**import android.view.View**;**import android.widget.Button**;**public class MainActivity extends Activity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState)**;** setContentView(R.layout.*activity\_main*)**;** Button btnGenerateMessage = findViewById(R.id.*btnGenerateMessage*)**;** btnGenerateMessage.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 // Generate a test message  
 String testMessage = "This is a test message received."**;** // Show alert dialog  
 showAlert(testMessage)**;** }  
 })**;** }  
  
 private void showAlert(String message) {  
 AlertDialog.Builder builder = new AlertDialog.Builder(this)**;** builder.setTitle("Alert")**;** builder.setMessage(message)**;** builder.setPositiveButton("OK"**,** new DialogInterface.OnClickListener() {  
 @Override  
 public void onClick(DialogInterface dialog**,** int which) {  
 dialog.dismiss()**;** }  
 })**;** AlertDialog alert = builder.create()**;** alert.show()**;** }  
}

**Output:**



