

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:



