

### 13. Create an application to create notification having icon, text and title.

#### // XML

```
<androidx.constraintlayout.widget.ConstraintLayout
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="405dp"
        android:layout_height="72dp"
        android:paddingTop="5dp"
        android:text="Notification Example"
        android:textAlignment="center"
        android:textSize="48sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toTopOf="@+id/button"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.134" />

    <Button
        android:id="@+id/button"
        android:layout_width="233dp"
        android:layout_height="57dp"
        android:text="Trigger Notification"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.535" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

#### // Java File

```
package com.example.notification_example;

import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.NotificationCompat;
import androidx.core.app.NotificationManagerCompat;

import android.app.NotificationChannel;
import android.app.NotificationManager;
import android.app.PendingIntent;
import android.content.Intent;
import android.os.Build;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.Button;
```

```

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    private static final String TAG = "MyTag";
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Log.i(TAG, "onCreate");
        Toast.makeText(MainActivity.this, "onCreate",
            Toast.LENGTH_LONG).show();

        if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O) {
            NotificationChannel channel = new NotificationChannel("Test",
                "TestChannel", NotificationManager.IMPORTANCE_DEFAULT);

            NotificationManager manager =
                getSystemService(NotificationManager.class);
            manager.createNotificationChannel(channel);
        }

        Button btn = findViewById(R.id.button);
        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                createNotification();
            }
        });
    }

    protected void onStart () {
        super.onStart();
        Log.i(TAG, "onStart");
        Toast.makeText(MainActivity.this, "onStart",
            Toast.LENGTH_LONG).show();
    }

    protected void onResume () {
        super.onResume();
        Log.i(TAG, "onResume");
        Toast.makeText(MainActivity.this, "onResume",
            Toast.LENGTH_LONG).show();
    }

    protected void onPause () {
        super.onPause();
        Log.i(TAG, "onPause");
        Toast.makeText(MainActivity.this, "onPause",
            Toast.LENGTH_LONG).show();
    }

    protected void onStop () {
        super.onStop();
        Log.i(TAG, "onStop");
        Toast.makeText(MainActivity.this, "onStop",
            Toast.LENGTH_LONG).show();
    }

    protected void onDestroy () {
        super.onDestroy();
        Log.i(TAG, "onDestory");
    }
}

```

```

        Toast.makeText(MainActivity.this, "onDestory",
Toast.LENGTH_LONG).show();
    }

    protected void onRestart () {
        super.onRestart();
        Log.i(TAG, "onRestart");
        Toast.makeText(MainActivity.this, "onRestart",
Toast.LENGTH_LONG).show();
    }
    private void createNotification() {

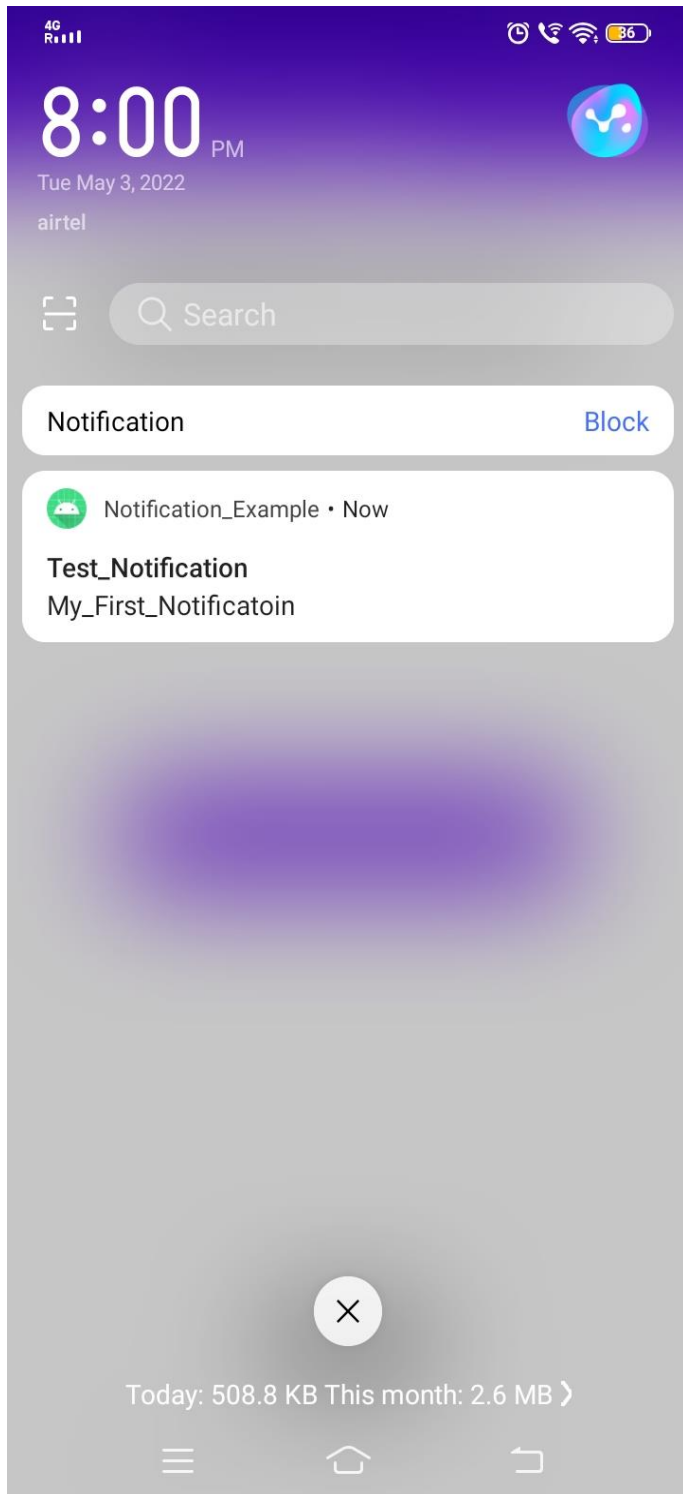
        Intent intent = new Intent(MainActivity.this, MainActivity2.class);
        intent.setFlags(Intent.FLAG_ACTIVITY_NEW_TASK |
Intent.FLAG_ACTIVITY_CLEAR_TASK);
        PendingIntent pendingIntent = PendingIntent.getActivity(
            MainActivity.this, 1, intent, 0 );

        NotificationCompat.Builder builder = new
NotificationCompat.Builder(
            MainActivity.this, "TestChannel")
            .setContentTitle("Test_Notification")
            .setContentText("My_First_Notificatoion")
            .setSmallIcon(R.drawable.ic_android_black_24dp)
            .setContentIntent(pendingIntent)
            .setAutoCancel(true);

        NotificationManagerCompat manager =
NotificationManagerCompat.from(MainActivity.this);
        manager.notify(101, builder.build());

    }
}

```



Notification\_Example

# Notification

TRIGGER NOTIFICATION

