Android Toast class provides a handy way to show users alerts but problem is that these alerts are not persistent which means alert flashes on the screen for a few seconds and then disappears

Create and Send Notifications

Step 1 - Create Notification Builder

NotificationCompat.Builder mBuilder = new NotificationCompat.Builder(this)

Step 2 - Setting Notification Properties

Once you have Builder object, you can set its Notification properties using Builder object as per your requirement. But this is mandatory to set at least following −

- A small icon, set by setSmallIcon()

- A title, set by setContentTitle()

- Detail text, set by setContentText()

mBuilder.setSmallIcon(R.drawable.notification_icon);

mBuilder.setContentTitle("Notification Alert, Click Me!");

mBuilder.setContentText("Hi, This is Android Notification Detail!");

Step 3 - Attach Actions

An action allows users to go directly from the notification to an Activity in your application, where they can look at one or more events or do further work.

The action is defined by a PendingIntent containing an Intent that starts an Activity in your application. To associate the PendingIntent with a gesture, call the appropriate method of NotificationCompat.Builder. For example, if you want to start Activity when the user clicks the notification text in the notification drawer, you add the PendingIntent by calling setContentIntent().

Step 4 - Issue the notification

NotificationManager mNotificationManager = (NotificationManager) getSystemService(Context.NOTIFICATION_SERVICE);

// notificationID allows you to update the notification later on.

mNotificationManager.notify(notificationID, mBuilder.build());

Program :

Main Activity.java:

```java
import android.app.Activity;

import android.app.NotificationManager;

import android.app.PendingIntent;

import android.content.Context;

import android.content.Intent;

import android.support.v4.app.NotificationCompat;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

public class MainActivity extends Activity {

    Button b1;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        b1 = (Button)findViewById(R.id.button);

        b1.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View v) {

                addNotification();

            }

        });

    }

    private void addNotification() {

        NotificationCompat.Builder builder =

            new NotificationCompat.Builder(this)

            .setSmallIcon(R.drawable.abc)

            .setContentTitle("Notifications Example")

            .setContentText("This is a test notification");
```

```java
        Intent notificationIntent = new Intent(this, MainActivity.class);

        PendingIntent contentIntent = PendingIntent.getActivity(this, 0, notificationIntent,

           PendingIntent.FLAG_UPDATE_CURRENT);

        builder.setContentIntent(contentIntent);

        // Add as notification

        NotificationManager manager = (NotificationManager)
getSystemService(Context.NOTIFICATION_SERVICE);

        manager.notify(0, builder.build());

    }
}
```