Name :- Jadhav Kanchan Adhikrao
Roll No :- 8239(TYCS-A)
Subject :- Android Programming

PRACTICAL – 11

Aim :- Create an android app to show Notifications and Alarm manager.

Code :-

MainActivity.java :-

```
package com.example.notificationdemo;


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();

      }

    });
```

```java
    }


    private void addNotification() {

      NotificationCompat.Builder builder =

        new NotificationCompat.Builder(this)

        .setSmallIcon(R.drawable.abc)

        .setContentTitle("Notifications Example")

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


      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());

    }

}
```

activity_main.xml :-

```xml
<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:paddingBottom="@dimen/activity_vertical_margin"

  android:paddingLeft="@dimen/activity_horizontal_margin"

  android:paddingRight="@dimen/activity_horizontal_margin"

  android:paddingTop="@dimen/activity_vertical_margin"

  tools:context="MainActivity">


  <TextView
```

```xml
    android:id="@+id/textView1"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:text="Notification Example"

    android:layout_alignParentTop="true"

    android:layout_centerHorizontal="true"

    android:textSize="30dp" />


<TextView

    android:id="@+id/textView2"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:text="Tutorials point "

    android:textColor="#ff87ff09"

    android:textSize="30dp"

    android:layout_below="@+id/textView1"

    android:layout_centerHorizontal="true"

    android:layout_marginTop="48dp" />


<ImageButton

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:id="@+id/imageButton"

    android:src="@drawable/abc"

    android:layout_below="@+id/textView2"

    android:layout_centerHorizontal="true"

    android:layout_marginTop="42dp" />


<Button

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"
```

```xml
        android:text="Notification"

        android:id="@+id/button"

        android:layout_marginTop="62dp"

        android:layout_below="@+id/imageButton"

        android:layout_centerHorizontal="true" />


</RelativeLayout>
```

strings.xml :-

```xml
<?xml version="1.0" encoding="utf-8"?>

<resources>

   <string name="action_settings">Settings</string>

   <string name="app_name">tutorialspoint </string>

</resources>
```

NotificationView.java :-

```java
package com.example.notificationdemo;


import android.os.Bundle;

import android.app.Activity;


public class NotificationView extends Activity{

   @Override

   public void onCreate(Bundle savedInstanceState){

      super.onCreate(savedInstanceState);

      setContentView(R.layout.notification);

   }

}
```

notification.xml :-

```xml
<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

   android:orientation="vertical"

   android:layout_width="fill_parent"
```

```
    android:layout_height="fill_parent" >


    <TextView

      android:layout_width="fill_parent"

      android:layout_height="400dp"

      android:text="Hi, Your Detailed notification view goes here...." />

</LinearLayout>
```

AndroidManifest.xml :-

```xml
<?xml version="1.0" encoding="utf-8"?>

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

  package="com.example.notificationdemo" >


  <application

    android:allowBackup="true"

    android:icon="@drawable/ic_launcher"

    android:label="@string/app_name"

    android:theme="@style/AppTheme" >


    <activity

      android:name="com.example.notificationdemo.MainActivity"

      android:label="@string/app_name" >


      <intent-filter>

        <action android:name="android.intent.action.MAIN" />

        <category android:name="android.intent.category.LAUNCHER" />

      </intent-filter>


    </activity>


    <activity android:name=".NotificationView"

      android:label="Details of notification"
```

```
    android:parentActivityName=".MainActivity">

    <meta-data

    android:name="android.support.PARENT_ACTIVITY"

    android:value=".MainActivity"/>

  </activity>


  </application>

</manifest>
```

Output :-