**EX. NO:8**

**Secure the Student Management Application with proper hints, messages, notifications, and logging**

Procedure:

1. Create a New Android Project:

• Click New in the toolbar.

• In the window that appears, open the Android folder, select Android Application Project, and click next.

• Provide the application name and the project name and then finally give the desired package name.

• Choose a launcher icon for your application and then select Blank Activity and then click Next

• Provide the desired Activity name for your project and then click Finish.

2. Create a New AVD (Android Virtual Device):

• click Android Virtual Device Manager from the toolbar.

• In the Android Virtual Device Manager panel, click New.

• Fill in the details for the AVD. Give it a name, a platform target, an SD card size, and a skin (HVGA is default).

• Click Create AVD and Select the new AVD from the Android Virtual Device

Manager and click Start.

3. Design the graphical layout using buttons, text and ImageView.

4. Creating Second Activity for the Android Application:

5. Click on File -> New -> Activity -> Empty Activity.

6. Type the Activity Name as Second Activity and click Finish button.

7. Run the application.

8. Display the output by clicking the Notify button.

9. Close the Android project.

**Code:**

**MainActivity.java**

**package** com.example.admin.myapplication;

**import**android.app.Notification;

**import** android.app.NotificationManager;

**import** android.app.PendingIntent; **import** android.content.Intent; **import** android.os.Bundle;

**import** android.support.v7.app.AppCompatActivity;

**import** android.view.View;

**import** android.widget.Button;

**import** android.widget.EditText;

**public class** MainActivity**extends** AppCompatActivity

{

Button **notify**; EditText**e**;

@Override

**protected void** onCreate(Bundle savedInstanceState)

{ **super**.onCreate(savedInstanceState); setContentView(R.layout.***activity\_main***);

**notify**= (Button) findViewById(R.id.***button***);

**e**= (EditText) findViewById(R.id.***editText***);

**notify**.setOnClickListener(**new** View.OnClickListener()

{

@Override

**public void** onClick(View v)

{

Intent intent = **new** Intent(MainActivity.**this**, Main2Activity.**class**); PendingIntent pending = PendingIntent.*getActivity*(MainActivity.**this**, 0, intent, 0); Notificationnoti = **new** Notification.Builder(MainActivity.**this**).setContentTitle(**"New**

**Message"**).setContentText(**e**.getText().toString()).setSmallIcon(R.mipmap.***ic\_launcher***).setContentI

ntent(pending).build();

NotificationManager manager = (NotificationManager) getSystemService(***NOTIFICATION\_SERVICE***); noti.**flags**|= Notification.***FLAG\_AUTO\_CANCEL***; manager.notify(0, noti);

}

});

}

}

**activity\_main.xml**

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

<**LinearLayoutxmlns:android="http://schemas.android.com/apk/res/android" android:layout\_width="match\_parent" android:layout\_height="match\_parent"**

**android:layout\_margin="10dp" android:orientation="vertical"**>

<**TextView android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Message Form KCET" android:textSize="30sp"** />

<**EditText android:id="@+id/editText" android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:textSize="30sp"** />

<**Button android:id="@+id/button" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_margin="30dp" android:layout\_gravity="center" android:text="Notify" android:textSize="30sp"**/>

</**LinearLayout**>

**Main2Activity.java**

**package** com.example.admin.myapplication;

**import** android.support.v7.app.AppCompatActivity;

**import** android.os.Bundle;

**public class** Main2Activity **extends** AppCompatActivity {

@Override

**protected void** onCreate(Bundle savedInstanceState) { **super**.onCreate(savedInstanceState); setContentView(R.layout.***activity\_main2***);

}

}

**Output:**

