

Android Application that creates an alert upon receiving a message

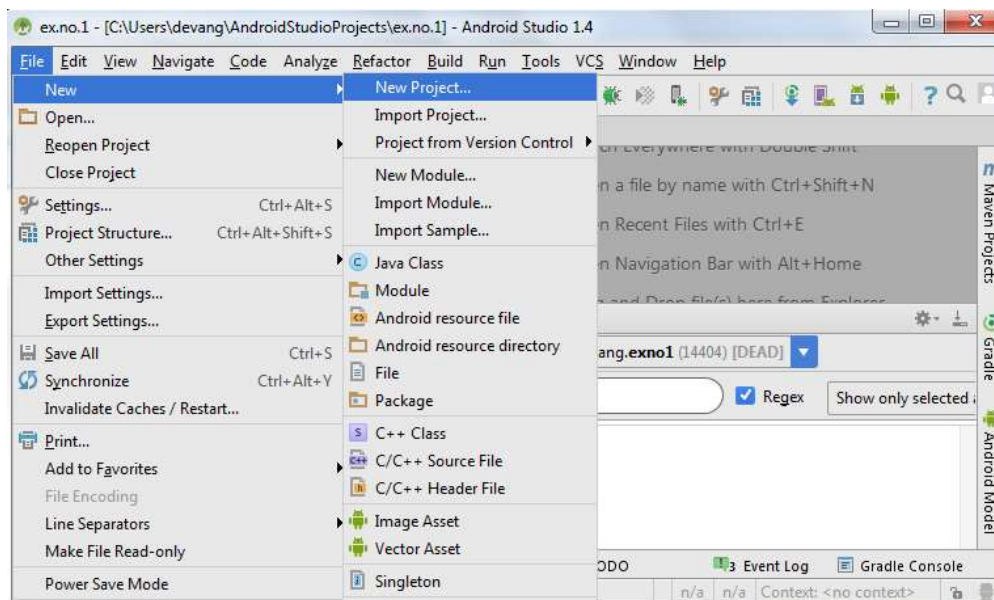
Aim:

To develop a Android Application that creates an alert upon receiving a message.

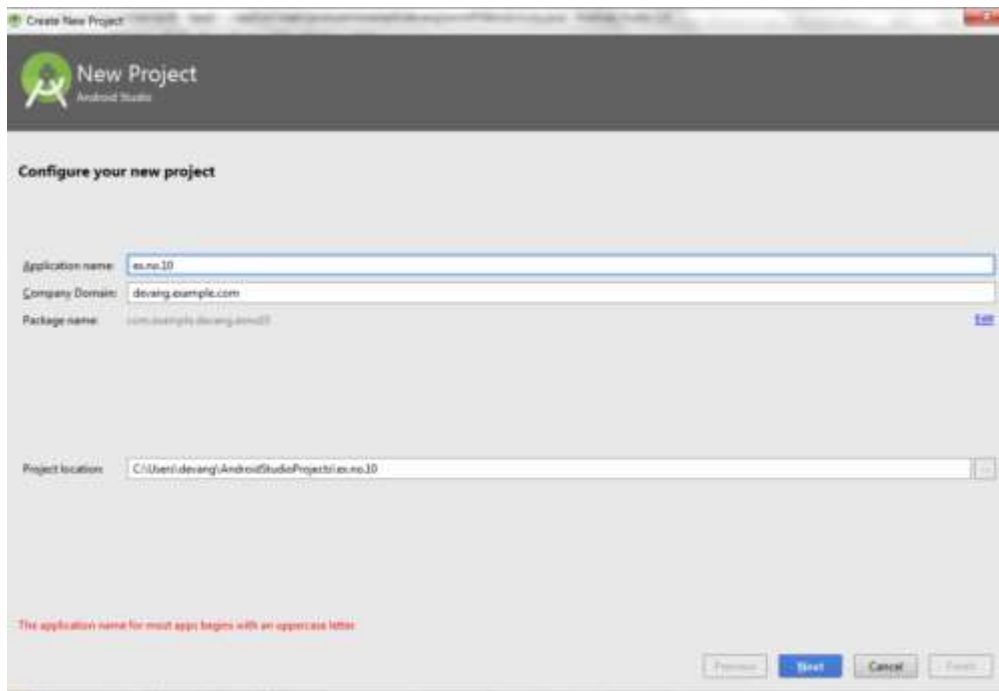
Procedure:

Creating a New project:

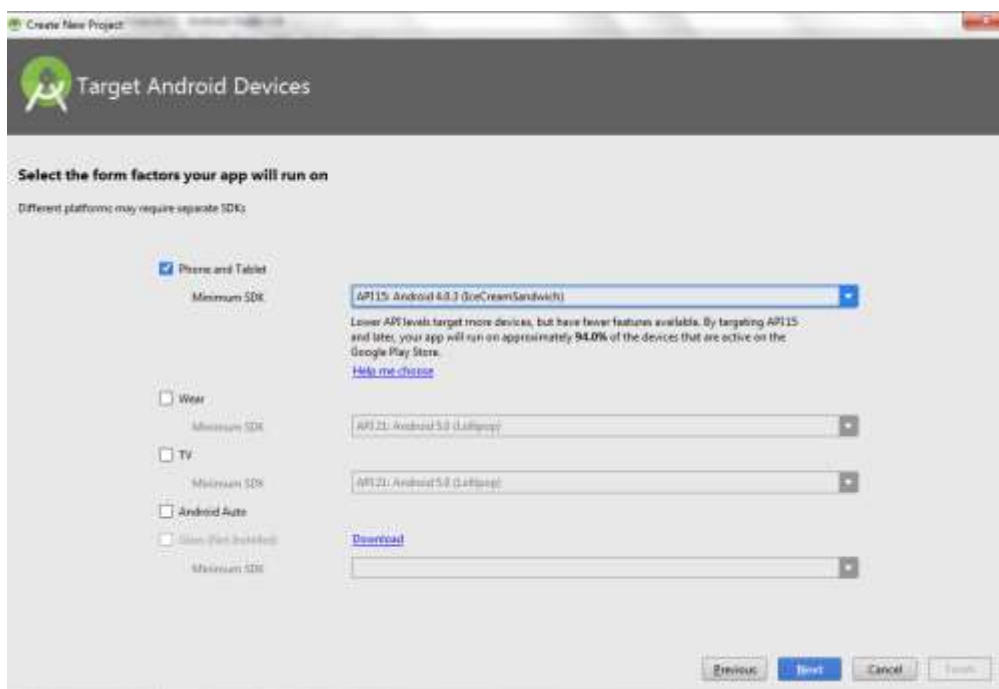
- Open Android Studio and then click on **File -> New -> New project**.



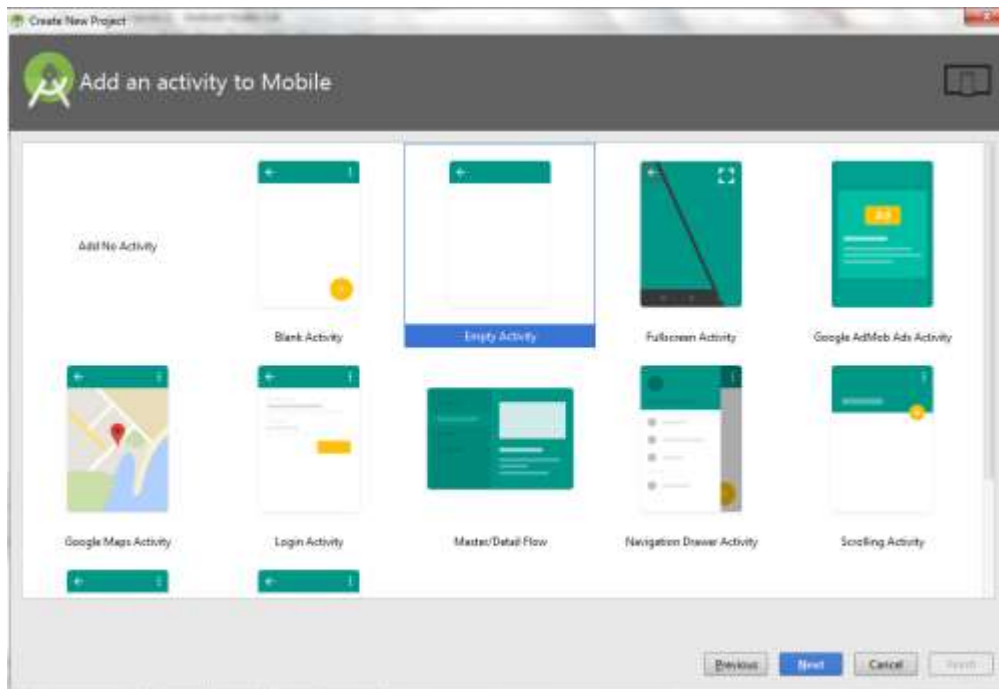
- Then type the Application name as “**ex.no.10**” and click **Next**.



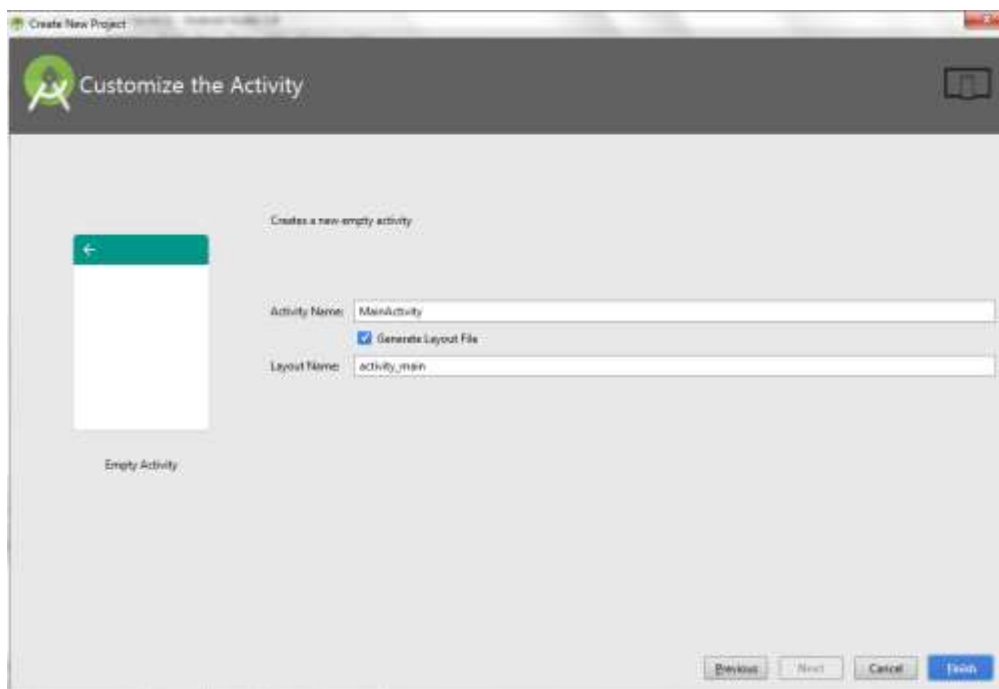
- Then select the **Minimum SDK** as shown below and click **Next**.



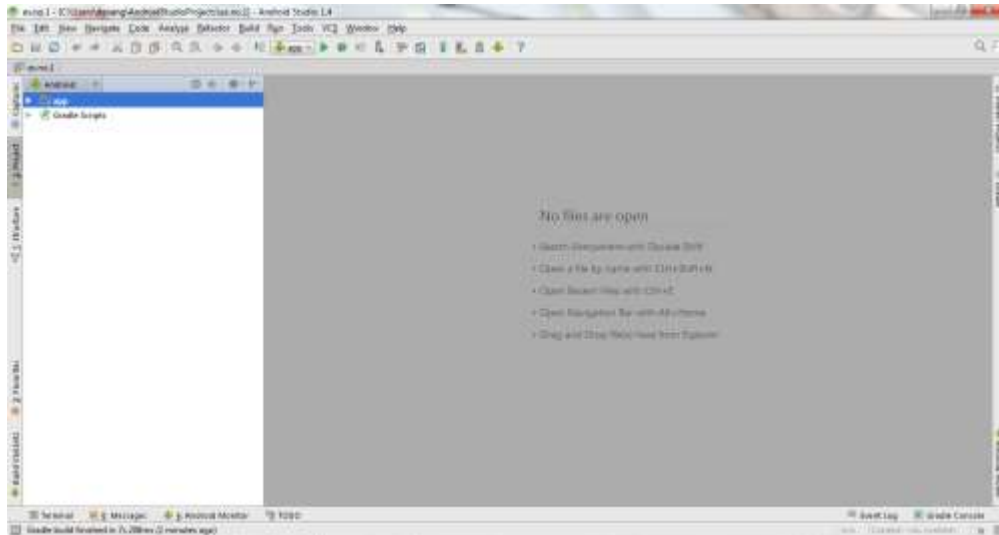
- Then select the **Empty Activity** and click **Next**.



- Finally click **Finish**.

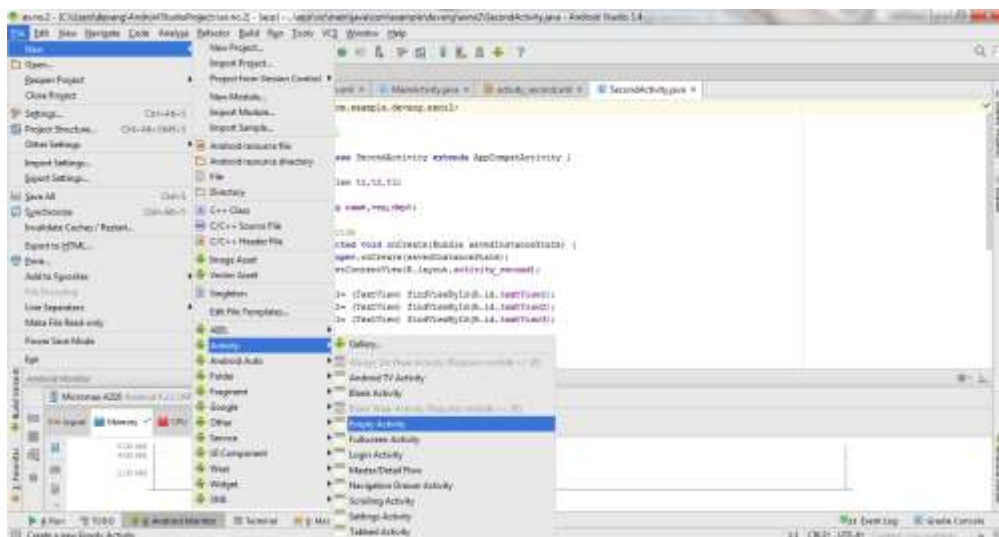


- It will take some time to build and load the project.
- After completion it will look as given below.

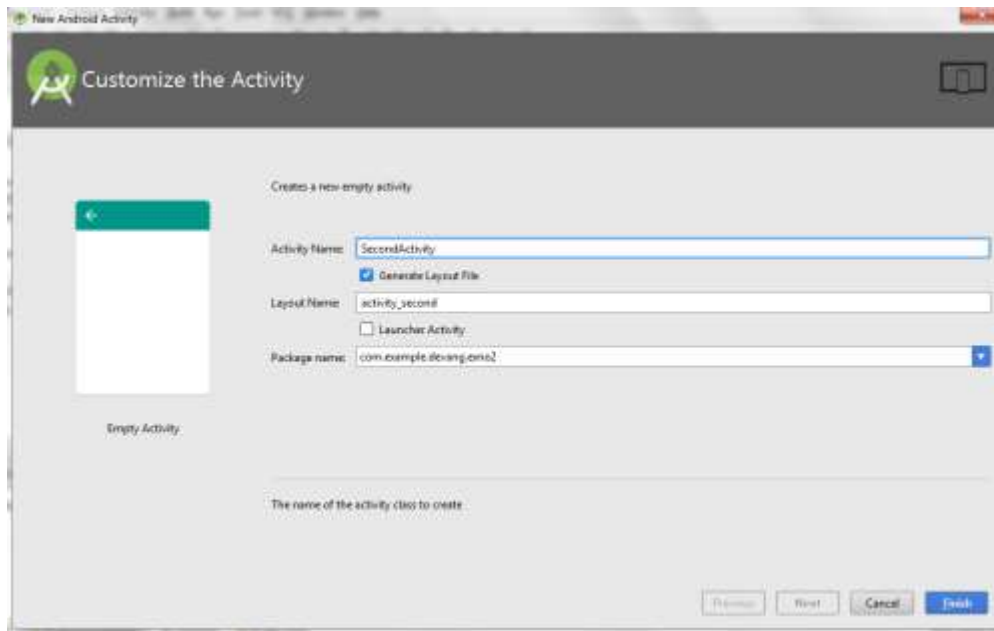


Creating Second Activity for the Android Application:

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



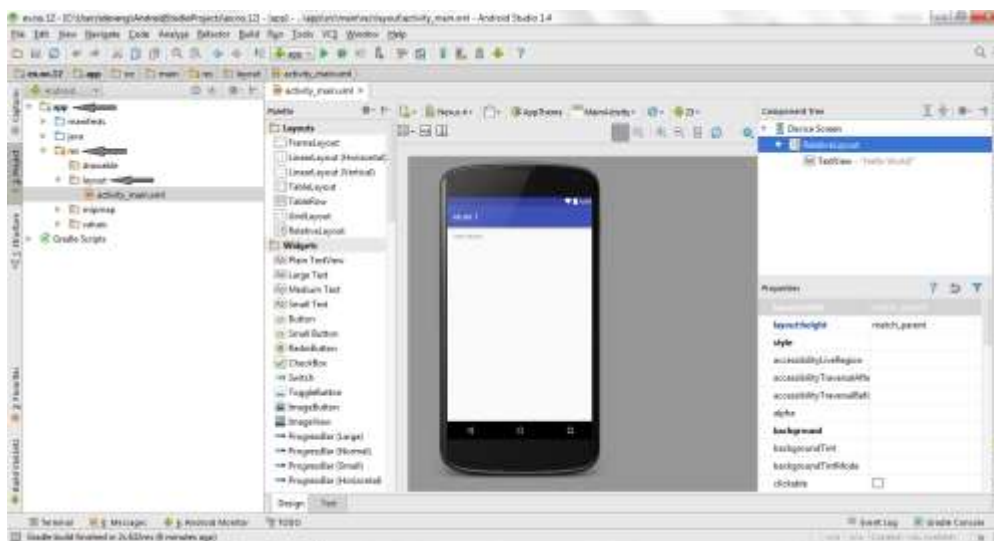
- Type the Activity Name as **SecondActivity** and click **Finish** button.



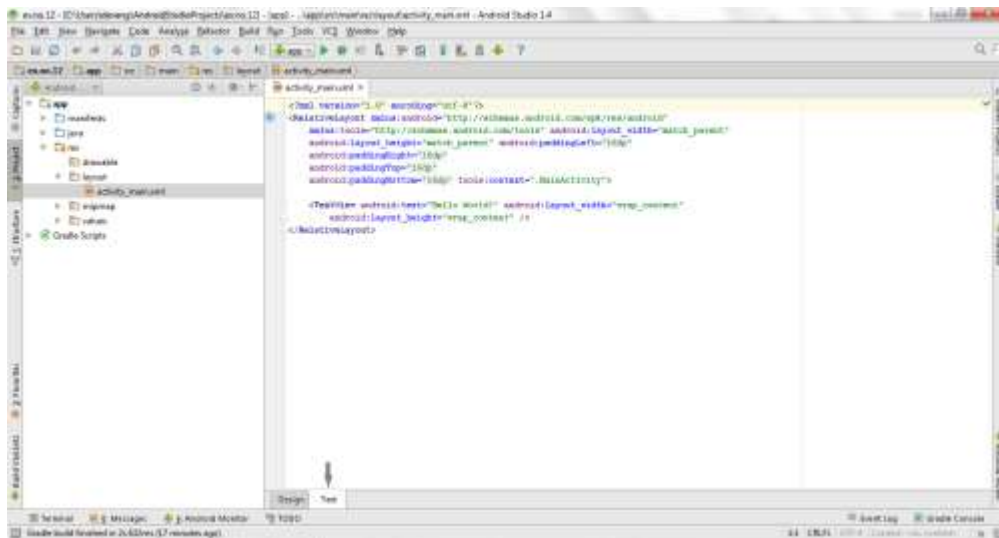
- Thus Second Activity For the application is created.

Designing layout for the Android Application:

- Click on **app -> res -> layout -> activity_main.xml**.



- Now click on **Text** as shown below.



- Then delete the code which is there and type the code as given below.

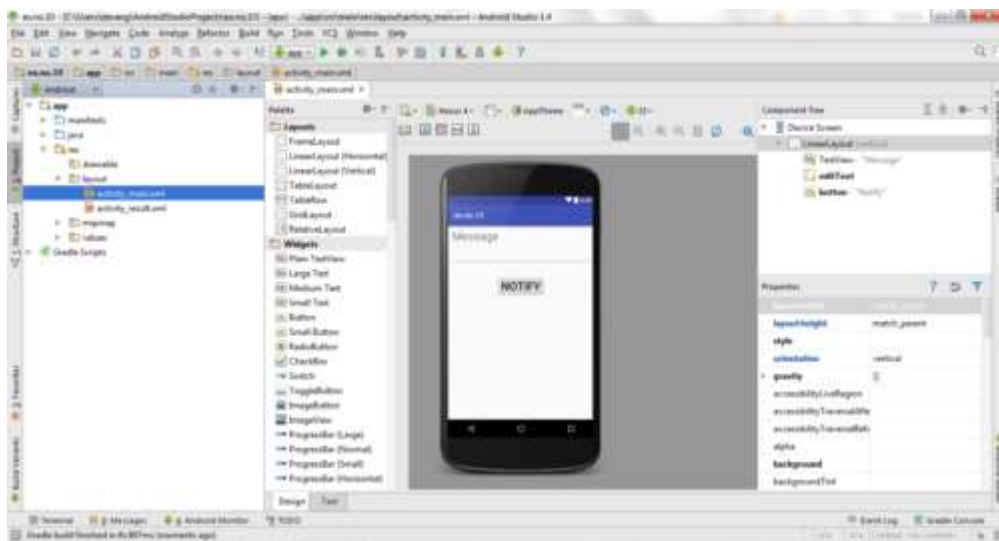
Code for Activity_main.xml:

```

1
2
3 <?xml version="1.0" encoding="utf-8"?>
4 <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
5     android:layout_width="match_parent"
6     android:layout_height="match_parent"
7     android:layout_margin="10dp"
8     android:orientation="vertical">
9
10     <TextView
11         android:layout_width="wrap_content"
12         android:layout_height="wrap_content"
13         android:text="Message"
14         android:textSize="30sp" />
15
16     <EditText
17         android:id="@+id/editText"
18         android:layout_width="match_parent"
19         android:layout_height="wrap_content"
20         android:singleLine="true"
21         android:textSize="30sp" />
22
23     <Button
24         android:id="@+id/button"
25         android:layout_width="wrap_content"
26         android:layout_height="wrap_content"
27         android:layout_margin="30dp"
28         android:layout_gravity="center"
29         android:text="Notify"
30         android:textSize="30sp"/>
31
32 </LinearLayout>

```

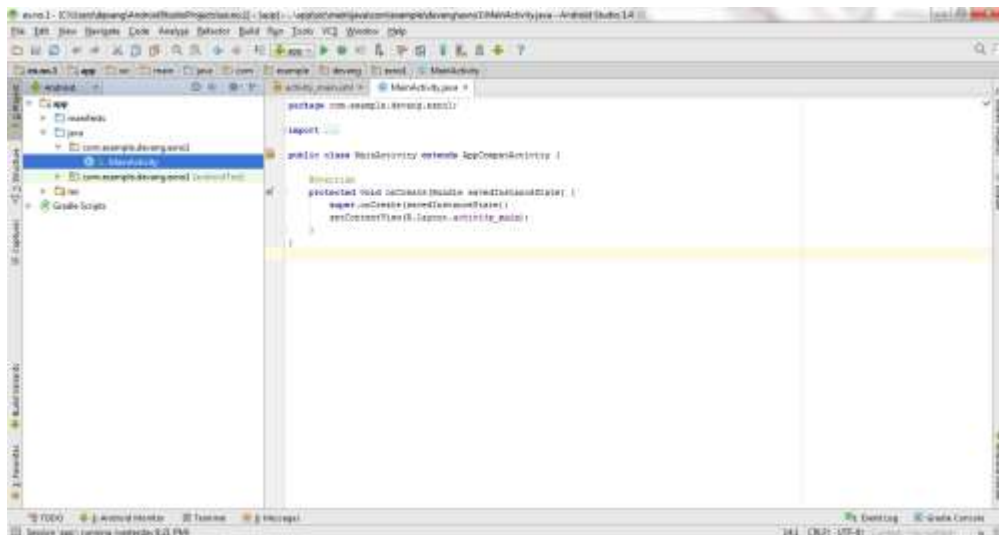
- Now click on **Design** and your application will look as given below.



- So now the designing part is completed.

Java Coding for the Android Application:

- Click on **app -> java -> com.example.exno10 -> MainActivity**.



- Then delete the code which is there and type the code as given below.

Code for MainActivity.java:

```

1 package com.example.exno10;
2
3 import android.app.Notification;
4 import android.app.NotificationManager;

```

```

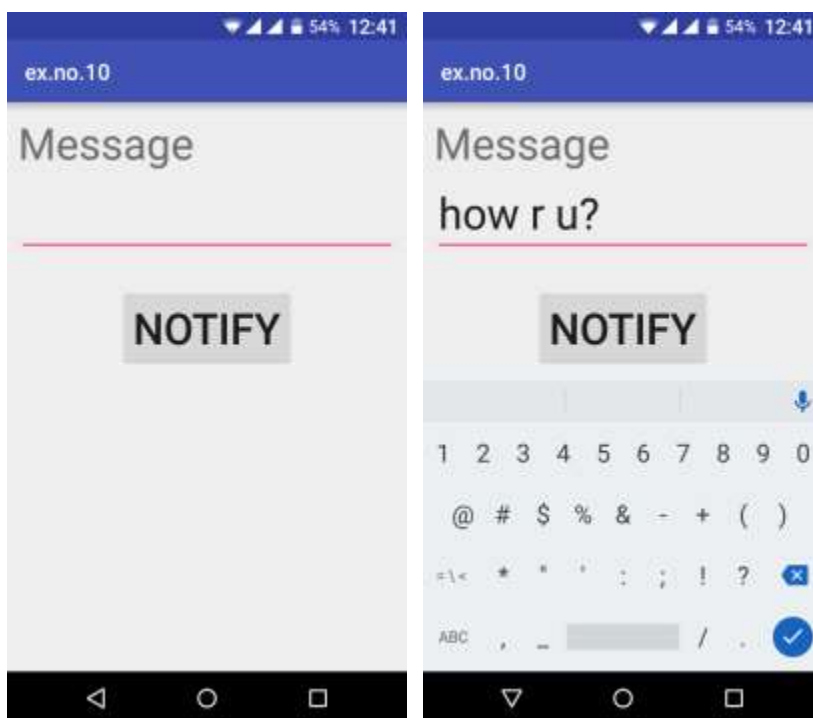
5 import android.app.PendingIntent;
6 import android.content.Intent;
7 import android.os.Bundle;
8 import android.support.v7.app.AppCompatActivity;
9 import android.view.View;
9 import android.widget.Button;
1 import android.widget.EditText;
0
1 public class MainActivity extends AppCompatActivity
1 {
1     Button notify;
1     EditText e;
2     @Override
1     protected void onCreate(Bundle savedInstanceState)
3     {
1         super.onCreate(savedInstanceState);
1         setContentView(R.layout.activity_main);
4
1         notify= (Button) findViewById(R.id.button);
5         e= (EditText) findViewById(R.id.editText);
1
6         notify.setOnClickListener(new View.OnClickListener()
1         {
1             @Override
7             public void onClick(View v)
1             {
8                 Intent intent = new Intent(MainActivity.this,
1 SecondActivity.class);
1                 PendingIntent pending =
9 PendingIntent.getActivity(MainActivity.this, 0, intent, 0);
2                 Notification noti = new
0 Notification.Builder(MainActivity.this).setContentTitle("New
2 Message").setContentText(e.getText().toString()).setSmallIcon(R.mipmap.ic
2 _launcher).setContentIntent(pending).build();
1                 NotificationManager manager = (NotificationManager)
2 getSystemService(NOTIFICATION_SERVICE);
2                 noti.flags |= Notification.FLAG_AUTO_CANCEL;
2                 manager.notify(0, noti);
3             }
2         });
4 }
2
5
2
6
2
7
2
8
2
9
3
0
3
1

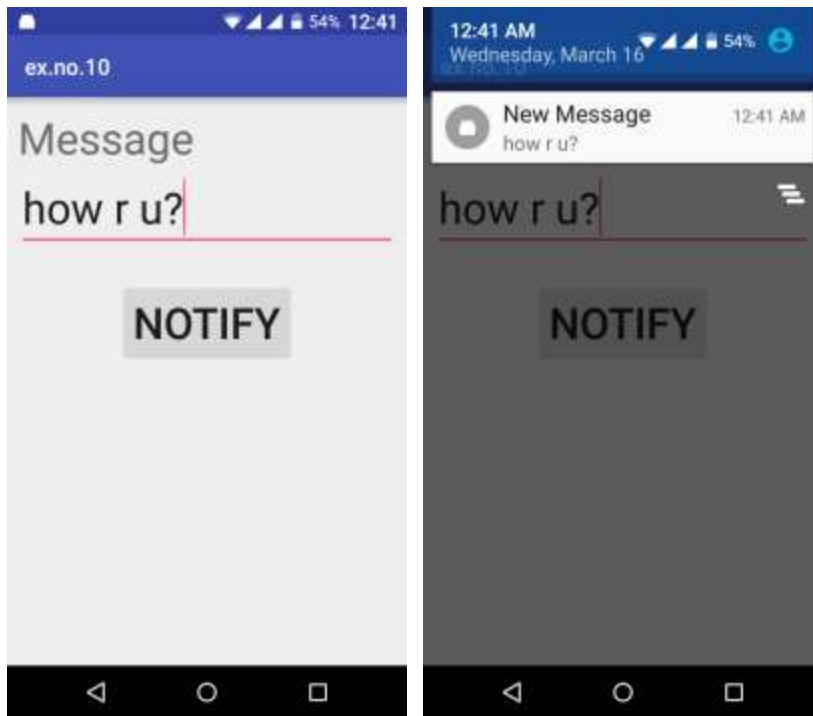
```


3
2
3
3
3
4
3
5
3
6
3
7
3
8
3
9
4
0

- So now the Coding part is also completed.
- Now run the application to see the output.

Output:





Result:

Thus Android Application that creates an alert upon receiving a message is developed and executed successfully.