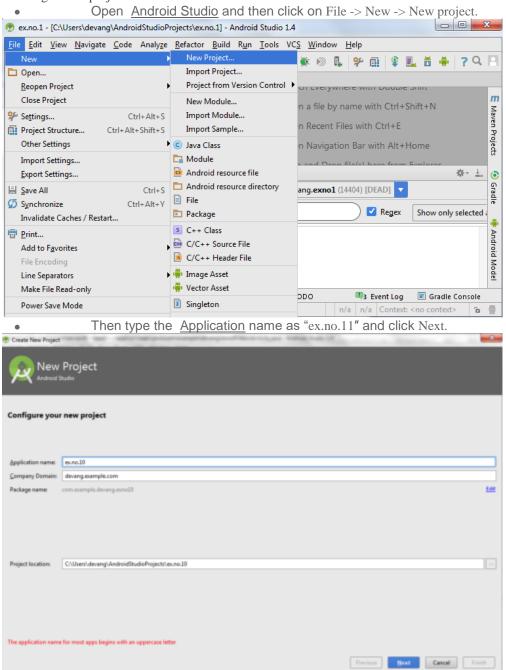
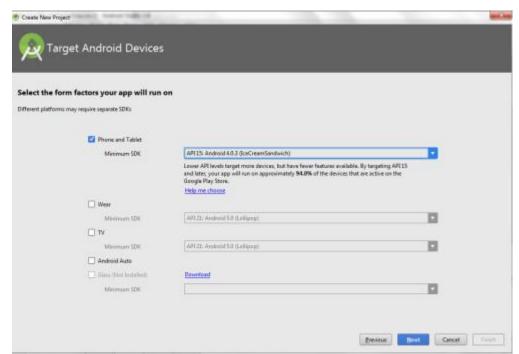
Week 11: Develop an application that creates notification upon receiving a message.

Android Application that creates an alert upon receiving a message Aim:

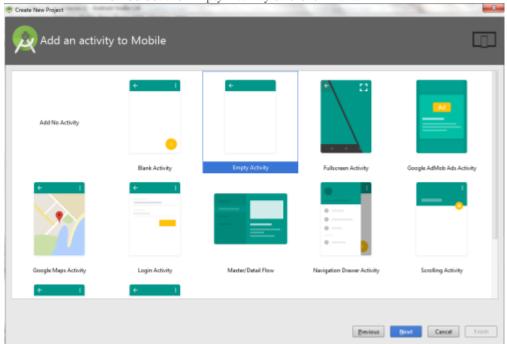
To develop a <u>Android</u> <u>Application</u> that creates an alert upon receiving a message. Procedure:

Creating a New project:

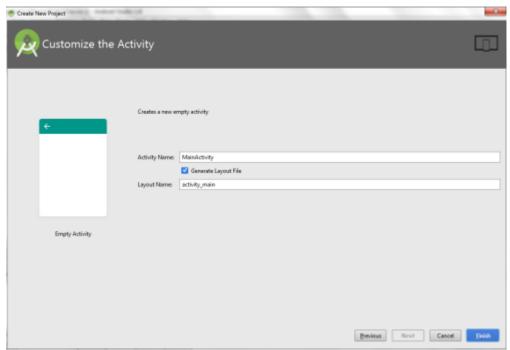




Then select the Empty Activity and click Next.

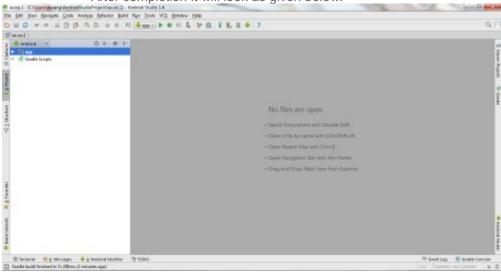


Finally click Finish.



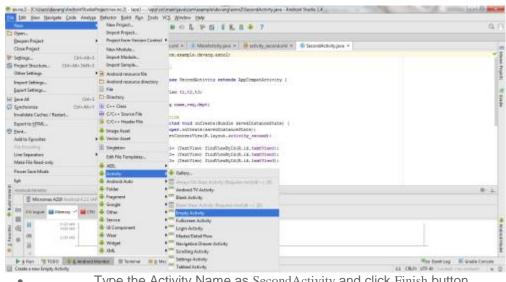
It will take some time to build and load the project.

After completion it will look as given below.

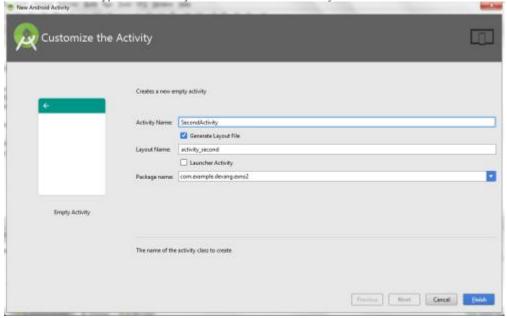


Creating Second Activity for the Android Application:

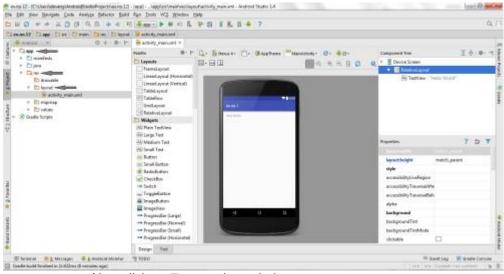
• Click on File -> New -> Activity -> Empty Activity.



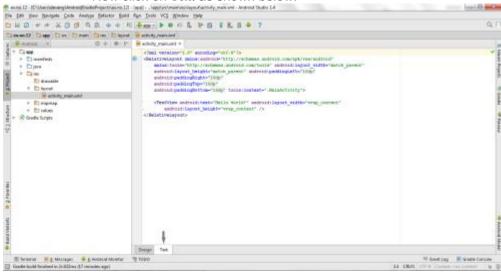
Type the Activity Name as SecondActivity and click Finish button.



- 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.

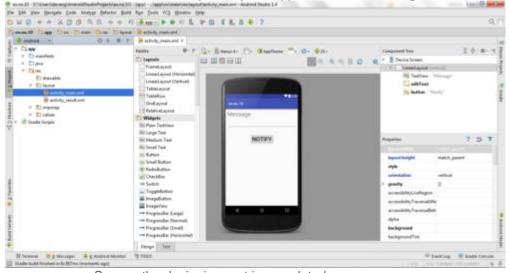


• Then delete the code which is there and type the code as given below. Code for Activity_main.xml:

```
1 <?xml version="1.0" encoding="utf-8"?>
   <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
       android:layout_width="match_parent"
 3
       android:layout_height="match_parent"
4
 5
       android:layout margin="10dp"
 6
       android:orientation="vertical">
 7
8
       <TextView
9
            android:layout_width="wrap_content"
10
           android:layout_height="wrap_content"
           android:text="Message"
11
           android:textSize="30sp" />
12
13
14
       <EditText
           android:id="@+id/editText"
15
16
            android:layout_width="match_parent"
```

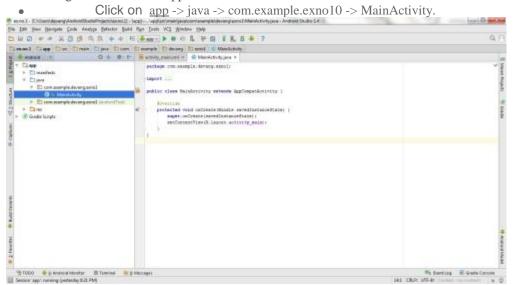
```
17
            android:layout_height="wrap_content"
            android:singleLine="true"
18
19
           android:textSize="30sp" />
20
21
       <Button
22
           android:id="@+id/button"
23
           android:layout_width="wrap_content"
24
            android:layout_height="wrap_content"
25
            android:layout_margin="30dp"
26
            android:layout_gravity="center"
27
           android:text="Notify"
28
           android:textSize="30sp"/>
29
  </LinearLayout>
```

• Now click on Design and your <u>application</u> will look as given below.



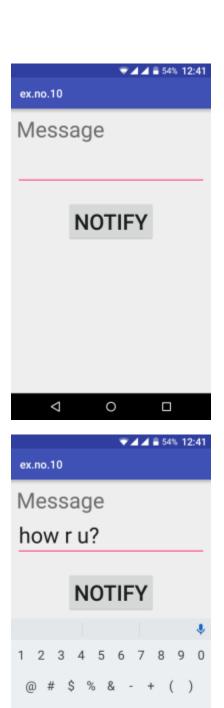
So now the designing part is completed.

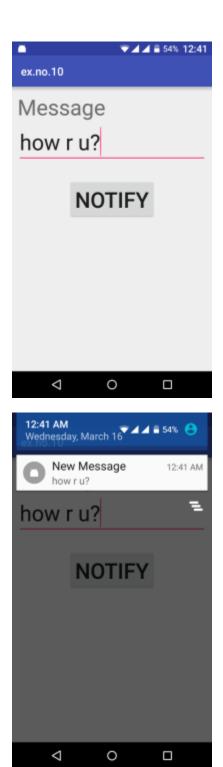
Java Coding for the Android Application:



• Then delete the code which is there and type the code as given below. Code for MainActivity.java:

```
?
  package com.example.exno10;
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;
1 import android.widget.Button;
0 import android.widget.EditText;
1 public class MainActivity extends AppCompatActivity
1 {
2
      Button notify;
1
      EditText e;
3
      @Override
      protected void onCreate(Bundle savedInstanceState)
1
4
1
           super.onCreate(savedInstanceState);
5
           setContentView(R.layout.activity_main);
1
6
           notify= (Button) findViewById(R.id.button);
1
           e= (EditText) findViewById(R.id.editText);
7
1
           notify.setOnClickListener(new View.OnClickListener()
8
           {
1
               @Override
9
               public void onClick(View v)
2
0
                   Intent intent = new Intent(MainActivity.this,
  SecondActivity.class);
                   PendingIntent pending =
  PendingIntent.getActivity(MainActivity.this, 0, intent, 0);
                   Notification noti = new
2 Notification.Builder(MainActivity.this).setContentTitle("New
3 Message").setContentText(e.getText().toString()).setSmallIcon(R.mipmap.ic_launche
2
  r).setContentIntent(pending).build();
                   NotificationManager manager = (NotificationManager)
  getSystemService(NOTIFICATION_SERVICE);
5
                   noti.flags |= Notification.FLAG AUTO CANCEL;
2
                   manager.notify(0, noti);
6
2
           });
7
      }
2 }
8
            So now the Coding part is also completed.
            Now run the <u>application</u> to see the output.
Output:
```





Result:

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