



EXPERIMENT NO. 9

AIM: Implement an application that creates an alert upon receiving a message.

Procedure:

Creating a new project:

1. Open Android Studio and then click on File -> New -> New project.
2. Then type the Application name as "ex.no.9" and click Next.
3. Then select the Minimum SDK and click Next.
4. Then select the Empty Activity and click Next.
5. Finally click Finish.

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

Designing layout for the Android Application:

1. Click on app -> res -> layout -> activity_main.xml.
2. Now click on Text.
3. Then delete the code which is there and type the code as given below.

Code for Activity_main.xml:

<pre><?xml version="1.0" encoding="utf-8"?> <LinearLayout xmlns:android= "http://schemas.android.com/apk/res/ android" android:layout_width="match_paren t" android:layout_height="match_paren t" android:layout_margin="10dp" android:orientation="vertical"> <TextView android:layout_width="wrap_conten t" android:layout_height="wrap_conten t" android:text="Message" android:textSize="30sp" /> <EditText</pre>	<pre> android:layout_height="wrap_cont ent" android:singleLine="true" android:textSize="30sp" /> <Button android:id="@+id/button" android:layout_width="wrap_conten t" android:layout_height="wrap_cont ent" android:layout_margin="30dp" android:layout_gravity="center" android:text="Notify" android:textSize="30sp"/> </LinearLayout></pre>
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Academic Year: 2023-24

<code>android:id="@+id/editText"</code>	
<code>android:layout_width="match_parent"</code>	

4. Now click on Design. This completes design part.

Java Coding for the Android Application:

1. Click on app -> java -> com.example.exno9 -> MainActivity.
2. Then delete the code which is there and type the code as given below.

Code for MainActivity.java:

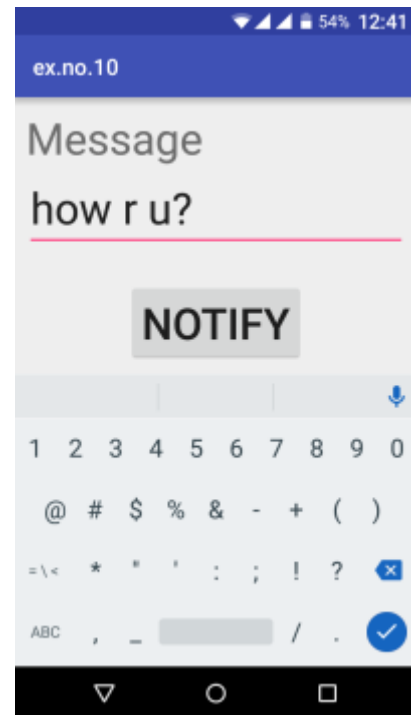
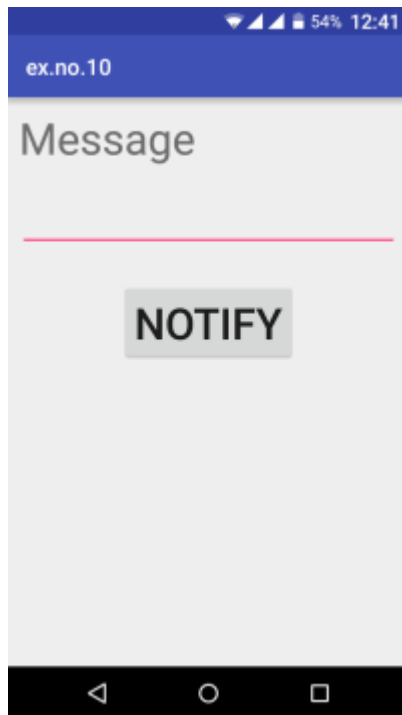
<pre>package com.example.exno9; import android.app.Notification; import android.app.NotificationManager; import android.app.PendingIntent; import android.content.Intent; import android.os.Bundle; import android.support.v7.app.AppCompatActivity; import android.view.View; import android.widget.Button; import android.widget.EditText; public class MainActivity extends AppCompatActivity { Button notify;</pre>	<pre>notify= (Button) findViewById(R.id.button); e= (EditText) findViewById(R.id.editText); super.onCreate(savedInstanceState); setContentView(R.layout.activity_main); notify.setOnClickListener(new View.OnClickListener() { @Override public void onClick(View v) { Intent intent = new Intent(MainActivity.this, SecondActivity.class); PendingIntent pending = PendingIntent.getActivity(MainActivity.this, 0, intent, 0); Notification noti = new Notification.Builder(MainActivity.this).setContentTitle("New Message").setContentText(e.getText().toString()).setSmallIcon (R.mipmap.ic_launcher).setContentIntent(pending).build(); NotificationManager manager = (NotificationManager) getSystemService(NOTIFICATION_SERVICE); noti.flags = Notification.FLAG_AUTO_CANCEL; manager.notify(0, noti); } }); }</pre>
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Academic Year: 2023-24

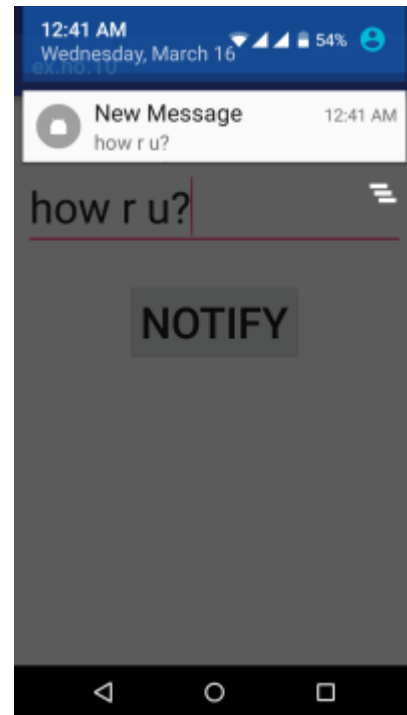
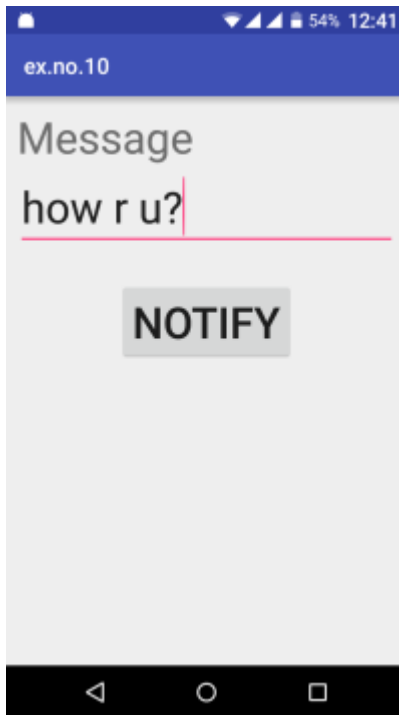
```
EditText e;  
@Override  
protected void  
onCreate(Bundle  
savedInstanceState)  
{
```

OUTPUT:





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