periment No.	Date Page No. 30
T	9. Implement an application that creates an alert upon receiving a message.
+	t and application man exemple and a position of the property o
	activity_main.xml
+	xml version="1.0" encoding="utf-8"?
	<linearlayout apk="" http:="" res-auto"<="" schemas.android.com="" td="" xmlns:android="http://schemas.android.com/apk/res/android&lt;/p&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;xmlns:app="></linearlayout>
-	xmlns:tools="http://schemas.android.com/tools"
	android:layout_width="match_parent"
_	android:layout_height="match_parent" tools:context=".MainActivity"
	android:orientation="vertical">
	- Vertical v
-	<textview< td=""></textview<>
	android:layout_width="wrap_content"
	android:layout_height="wrap_content"
	android:text="Message!"
	android:textSize="30sp"/>
-	
	<edittext< td=""></edittext<>
	android:id="@+id/editText"
	android:layout_width="match_parent"
	android:layout_height="wrap_content"
-	android:singleLine="true"
	android:textSize="30sp"/>
	<button< td=""></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"
	/>
-	MainActivity.java
-	package com.example.administrator.expg09;
	import android.support.v7.app.AppCompatActivity;
	import android.os.Bundle;
	import android.app.Notification;
	import android.app.NotificationManager;
	import android app.PendingIntent;
	import android.content.Intent;
Teache	er's Signature

```
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 view){
         Intent intent = new Intent(MainActivity.this,
         PendingIntent pending =
         PendingIntent.getActivity(MainActivity.this,0,intent,0);
         Notification noti= new Notification.Builder(
                          MainActivity.this).setContentTitle("New Message").
         NotificationManager manager=(NotificationManager)
noti.flags | =Notification.FLAG_AUTO_CANCEL;
                                          CIE Breakup
          manager.notify(0,noti);
                                         LABORATORY
                                          Max Marks | Man.
                                                                    90
                              Observation
```

	Date Page No. 38
periment No	
	that creates alarm clock.
	10. Devise a mobile application that creates alarm clock.
	XML file
	xml version="1.0" encoding="utf-8"?
	<pre></pre>
	xmlns:app="http://schemas.android.com/apk/res-auto
	xmlns:tools="http://schemas.android.com/tools"
	android:layout_width="match_parent"
	android:orientation="vertical"
	android:layout_height="match_parent"
	tools:context=".MainActivity">
	<timepicker< td=""></timepicker<>
	android:id="@+id/timePicker"
	android:layout_width="wrap_content"
	android:layout_height="wrap_content" android:layout_gravity="center" />
	andioid.layout_gravity center /
	<togglebutton< td=""></togglebutton<>
	android:id="@+id/toggleButton"
	android:layout_width="wrap_content"
	android:layout_height="wrap_content"
-	android:layout_gravity="center"
	android:layout_margin="20dp"
-	android:checked="false"
	android:onClick="OnToggleClicked" />
*	
	') BlicarLayout
	I (c)
	Java file
	package com.example.inchara_lab10;
	package contexample.mchara_lablo,
	import androidx.appcompat.app.AppCompatActivity;
	mipoto anatotamappeonipating,
	import android.app.AlarmManager;
	import android app.PendingIntent;
,	import android content. Intent;
	import android.os.Bundle;
	import android.view.View;
	import android widget. TimePicker;
	import android.widget.Toast;
	import android.widget.ToggleButton;
Teacher's S	Signature
	Scanned by CamScan

```
import java.util.Calendar;
         public class MainActivity extends AppCompatActivity {
           TimePicker alarmTimePicker;
           PendingIntent pendingIntent;
           AlarmManager alarmManager;
           @Override
           protected void onCreate(Bundle savedInstanceState) {
             super.onCreate(savedInstanceState);
             setContentView(R.layout.activity_main);
             alarmTimePicker = (TimePicker) findViewById(R.id.timePicker);
             alarmManager = (AlarmManager) getSystemService(ALARM_SERVICE);
           public void OnToggleClicked(View view) {
             long time;
             if (((ToggleButton) view).isChecked()){
               Toast.makeText(MainActivity.this, "ALARM ON",
         Toast.LENGTH_SHORT).show();
                Calendar calendar = Calendar.getInstance();
                calendar.set(Calendar.HOUR_OF_DAY,alarmTimePicker.getCurrentHour());
                calendar.set(Calendar.MINUTE,alarmTimePicker.getCurrentMinute());
                Intent intent = new Intent(this, AlarmReceiver.class);
                pendingIntent=PendingIntent.getBroadcast(this, 0, intent,0);
                time=(calendar.getTimeInMillis()-(calendar.getTimeInMillis()%60000));
               // the operating system for some the time is measured in milliseconds
                if(System.currentTimeMillis()>time){
                  if (calendar.AM PM == 0)
                    time = time + (1000*60*60*12);
                  else
                    time = time + (1000*60*60*24);
                alarmManager.setRepeating(AlarmManager.RTC_WAKEUP, time,10000,
         pendingIntent);
             else
                alarmManager.cancel(pendingIntent);
                Toast.makeText(MainActivity.this, "ALARM
         OFF",Toast.LENGTH_SHORT).show();
Teacher's Signature
```

Calendar calendar = Calendar.getInstance();

Intent intent = new Intent(this, AlarmReceiver.class);

calendar.set(Calendar.HOUR\_OF\_DAY,alarmTimePicker.getCurrentHour());

calendar.set(Calendar.MINUTE,alarmTimePicker.getCurrentMinute());

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lanager. <i>I</i>	RTC_WAKE	<i>UP</i> , time,10000,
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