

```
package com.my.newproject21;
```

```
import android.animation.*;
```

```
import android.app.*;
```

```
import android.content.*;
```

```
import android.content.res.*;
```

```
import android.graphics.*;
```

```
import android.graphics.drawable.*;
```

```
import android.media.*;
```

```
import android.net.*;
```

```
import android.os.*;
```

```
import android.text.*;
```

```
import android.text.style.*;
```

```
import android.util.*;
```

```
import android.view.*;
```

```
import android.view.View.*;
```

```
import android.view.animation.*;
```

```
import android.webkit.*;
```

```
import android.widget.*;
```

```
import android.widget.LinearLayout;
```

```
import android.widget.ProgressBar;
```

```
import android.widget.ScrollView;
```

```
import android.widget.TextView;
```

```
import androidx.annotation.*;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import androidx.fragment.app.DialogFragment;
```

```
import androidx.fragment.app.Fragment;
```

```
import androidx.fragment.app.FragmentManager;
```

```
import com.google.firebase.FirebaseApp;
```

```
import com.google.firebase.database.ChildEventListener;
```

```
import com.google.firebase.database.DataSnapshot;
```

```
import com.google.firebase.database.DatabaseError;
```

```
import com.google.firebase.database.DatabaseReference;
```

```
import com.google.firebase.database.FirebaseDatabase;
```

```
import com.google.firebase.database.GenericTypeIndicator;
```

```
import com.google.firebase.database.ValueEventListener;
```

```
import java.io.*;
```

```
import java.text.*;
```

```
import java.util.*;
```

```
import java.util.HashMap;
```

```
import java.util.regex.*;
```

```
import me.bastanfar.semicirclearcprogressbar.*;
```

```
import org.json.*;
```

```
public class ProceActivity extends AppCompatActivity {
```

```
    private FirebaseDatabase _firebase = FirebaseDatabase.getInstance();
```

```
private HashMap<String, Object> user = new HashMap<>();
```

```
private double val1 = 0;
```

```
private double temp = 0;
```

```
private double soil = 0;
```

```
private double humi = 0;
```

```
private double soundval = 0;
```

```
private LinearLayout linear2;
```

```
private ScrollView vscroll1;
```

```
private TextView textview1;
```

```
private LinearLayout linear1;
```

```
private LinearLayout linear12;
```

```
private LinearLayout linear6;
```

```
private LinearLayout linear11;
```

```
private LinearLayout linear10;
```

```
private LinearLayout linear13;
```

```
private LinearLayout linear14;
```

```
private LinearLayout linear15;
```

```
private LinearLayout linear7;
```

```
private TextView textview13;
```

```
private ProgressBar progressbar4;
```

```
private TextView textview14;
```

```
private LinearLayout linear4;
```

```
private TextView textview4;
```

```
private TextView textview5;
```

```
private TextView textview10;
```

```
private ProgressBar progressbar5;
```

```
private TextView textview12;
```

```
private LinearLayout linear9;
```

```
private TextView textview8;
```

```
private TextView textview9;
```

```
private TextView textview15;
```

```
private ProgressBar progressbar6;
```

```
private TextView textview16;
```

```
private LinearLayout linear5;
```

```
private TextView textview6;
```

```
private TextView textview7;
```

```
private TextView textview17;
```

```
private ProgressBar progressbar7;
```

```
private TextView textview18;
```

```
private LinearLayout linear3;
```

```
private TextView textview2;
```

```
private TextView textview3;
```

```
private DatabaseReference data = _firebase.getReference("Data");
```

```
private ChildEventListener _data_child_listener;
```

```
@Override
```

```
protected void onCreate(Bundle _savedInstanceState) {  
  
    super.onCreate(_savedInstanceState);  
  
    setContentView(R.layout.proce);  
  
    initialize(_savedInstanceState);  
  
    FirebaseApp.initializeApp(this);  
  
    initializeLogic();  
  
}
```

```
private void initialize(Bundle _savedInstanceState) {  
  
    linear2 = findViewById(R.id.linear2);  
  
    vscroll1 = findViewById(R.id.vscroll1);  
  
    textview1 = findViewById(R.id.textview1);  
  
    linear1 = findViewById(R.id.linear1);  
  
    linear12 = findViewById(R.id.linear12);  
  
    linear6 = findViewById(R.id.linear6);  
  
    linear11 = findViewById(R.id.linear11);  
  
}
```

```
linear10 = findViewById(R.id.linear10);
```

```
linear13 = findViewById(R.id.linear13);
```

```
linear14 = findViewById(R.id.linear14);
```

```
linear15 = findViewById(R.id.linear15);
```

```
linear7 = findViewById(R.id.linear7);
```

```
textView13 = findViewById(R.id.textView13);
```

```
progressbar4 = findViewById(R.id.progressbar4);
```

```
textView14 = findViewById(R.id.textView14);
```

```
linear4 = findViewById(R.id.linear4);
```

```
textView4 = findViewById(R.id.textView4);
```

```
textView5 = findViewById(R.id.textView5);
```

```
textView10 = findViewById(R.id.textView10);
```

```
progressbar5 = findViewById(R.id.progressbar5);
```

```
textView12 = findViewById(R.id.textView12);
```

```
linear9 = findViewById(R.id.linear9);
```

```
textView8 = findViewById(R.id.textView8);
```



```
textView9 = findViewById(R.id.textView9);
```

```
textView15 = findViewById(R.id.textView15);
```

```
progressbar6 = findViewById(R.id.progressbar6);
```

```
textView16 = findViewById(R.id.textView16);
```

```
linear5 = findViewById(R.id.linear5);
```

```
textView6 = findViewById(R.id.textView6);
```

```
textView7 = findViewById(R.id.textView7);
```

```
textView17 = findViewById(R.id.textView17);
```

```
progressbar7 = findViewById(R.id.progressbar7);
```

```
textView18 = findViewById(R.id.textView18);
```

```
linear3 = findViewById(R.id.linear3);
```

```
textView2 = findViewById(R.id.textView2);
```

```
textView3 = findViewById(R.id.textView3);
```

```
_data_child_listener = new ChildEventListener() {
```

```
    @Override
```

```
public void onChildAdded(DataSnapshot _param1, String _param2) {

    GenericTypeIndicator<HashMap<String, Object>> _ind = new
GenericTypeIndicator<HashMap<String, Object>>() {};

    final String _childKey = _param1.getKey();

    final HashMap<String, Object> _childValue = _param1.getValue(_ind);

    if (_childKey.contains("led")) {

        if (_childValue.containsKey("humi")) {

            textView7.setText(_childValue.get("humi").toString());

progressbar6.setProgress((int)Double.parseDouble(_childValue.get("humi").toString()));

            textView5.setText(_childValue.get("temp").toString());

progressbar4.setProgress((int)Double.parseDouble(_childValue.get("temp").toString()));

            textView9.setText(_childValue.get("soilval").toString());

progressbar5.setProgress((int)Double.parseDouble(_childValue.get("soilval").toString()));

textView3.setText(_childValue.get("soundval").toString());
```

```
progressbar7.setProgress((int)Double.parseDouble(_childValue.get("soundval").toString()));
```

```
data.addChildEventListener(_data_child_listener);
```

```
}
```

```
else {
```

```
data.addChildEventListener(_data_child_listener);
```

```
}
```

```
}
```

```
else {
```

```
data.addChildEventListener(_data_child_listener);
```

```
}
```

```
}
```

```
@Override
```

```
public void onChildChanged(DataSnapshot _param1, String _param2) {
```

```
GenericTypeInfoIndicator<HashMap<String, Object>> _ind = new  
GenericTypeInfoIndicator<HashMap<String, Object>>() {};
```

```
final String _childKey = _param1.getKey();
```

```
final HashMap<String, Object> _childValue = _param1.getValue(_ind);
```

```
}
```

```
@Override
```

```
public void onChildMoved(DataSnapshot _param1, String _param2) {
```

```
}
```

```
@Override
```

```
public void onChildRemoved(DataSnapshot _param1) {
```

```
        GenericTypeIndicator<HashMap<String, Object>> _ind = new  
GenericTypeIndicator<HashMap<String, Object>>() {};
```

```
final String _childKey = _param1.getKey();
```

```
final HashMap<String, Object> _childValue = _param1.getValue(_ind);
```

```
}
```

```
@Override
```

```
public void onCancelled(DatabaseError _param1) {
```

```
    final int _errorCode = _param1.getCode();
```

```
    final String _errorMessage = _param1.getMessage();
```

```
}
```

```
};
```

```
data.addChildEventListener(_data_child_listener);
```

```
}
```

```
private void initializeLogic() {
```

```
    data.addChildEventListener(_data_child_listener);
```

```
    linear3.setBackground(new GradientDrawable() { public GradientDrawable getIns(int a,  
int b, int c, int d) { this.setCornerRadius(a); this.setStroke(b, c); this.setColor(d); return
```

```
this; } }.getIns((int)20, (int)5, 0xFF1B5E20, 0xFFFFC107));
```

```
linear4.setBackground(new GradientDrawable() { public GradientDrawable getIns(int a,  
int b, int c, int d) { this.setCornerRadius(a); this.setStroke(b, c); this.setColor(d); return  
this; } }.getIns((int)20, (int)5, 0xFF1B5E20, 0xFFFFC107));
```

```
linear5.setBackground(new GradientDrawable() { public GradientDrawable getIns(int a,  
int b, int c, int d) { this.setCornerRadius(a); this.setStroke(b, c); this.setColor(d); return  
this; } }.getIns((int)20, (int)5, 0xFF1B5E20, 0xFFFFC107));
```

```
linear9.setBackground(new GradientDrawable() { public GradientDrawable getIns(int a,  
int b, int c, int d) { this.setCornerRadius(a); this.setStroke(b, c); this.setColor(d); return  
this; } }.getIns((int)20, (int)5, 0xFF1B5E20, 0xFFFFC107));
```

```
}
```

```
public void _notify(final String _tilte, final String _Msg) {
```

```
final Context context = getApplicationContext();
```

```
NotificationManager notificationManager = (NotificationManager)  
context.getSystemService(Context.NOTIFICATION_SERVICE);
```

```
Intent intent = new Intent(this, MainActivity.class);
```

```
intent.setFlags(Intent.FLAG_ACTIVITY_CLEAR_TOP |  
Intent.FLAG_ACTIVITY_SINGLE_TOP);
```

```
PendingIntent pendingIntent = PendingIntent.getActivity(this, 0, intent, 0);
```

```
androidx.core.app.NotificationCompat.Builder builder;
```

```

int notificationId = 1;

String channelId = "channel-01";

String channelName = "Channel Name";

int importance = NotificationManager.IMPORTANCE_HIGH;

if (android.os.Build.VERSION.SDK_INT >= android.os.Build.VERSION_CODES.O) {

    NotificationChannel mChannel = new NotificationChannel(

        channelId, channelName, importance);

    notificationManager.createNotificationChannel(mChannel);

}

```

```

/*

```

Developer :- androidbulb

```

*/

```

```

        androidx.core.app.NotificationCompat.Builder mBuilder = new
        androidx.core.app.NotificationCompat.Builder(context, channelId)

            .setSmallIcon(R.drawable.logo_2)

            .setContentTitle(_tilte)

            .setContentText(_Msg)

            .setAutoCancel(true)

            .setOngoing(false)

            .setContentIntent(pendingIntent);

        TaskStackBuilder stackBuilder = TaskStackBuilder.create(context);

        stackBuilder.addNextIntent(intent);

        PendingIntent resultPendingIntent = stackBuilder.getPendingIntent(

```

```
        0,  
        PendingIntent.FLAG_UPDATE_CURRENT  
    );  
    mBuilder.setContentIntent(resultPendingIntent);  
  
    notificationManager.notify(notificationId, mBuilder.build());  
  
}
```

@Deprecated

```
public void showMessage(String _s) {  
  
    Toast.makeText(getApplicationContext(), _s, Toast.LENGTH_SHORT).show();  
  
}
```

@Deprecated

```
public int getLocationX(View _v) {  
  
    int _location[] = new int[2];  
  
    _v.getLocationInWindow(_location);
```



```
        return _location[0];  
  
    }  
}
```

@Deprecated

```
public int getLocationY(View _v) {  
  
    int _location[] = new int[2];  
  
    _v.getLocationInWindow(_location);  
  
    return _location[1];  
  
}
```

@Deprecated

```
public int getRandom(int _min, int _max) {  
  
    Random random = new Random();  
  
    return random.nextInt(_max - _min + 1) + _min;  
  
}
```

@Deprecated

```
public ArrayList<Double> getCheckedItemPositionsToArray(ListView _list) {

    ArrayList<Double> _result = new ArrayList<Double>();

    SparseBooleanArray _arr = _list.getCheckedItemPositions();

    for (int _idx = 0; _idx < _arr.size(); _idx++) {

        if (_arr.valueAt(_idx))

            _result.add((double)_arr.keyAt(_idx));

    }

    return _result;

}
```

@Deprecated

```
public float getDip(int _input) {

    return TypedValue.applyDimension(TypedValue.COMPLEX_UNIT_DIP, _input,
getResources().getDisplayMetrics());

}
```

@Deprecated

```
public int getDisplayWidthPixels() {  
  
    return getResources().getDisplayMetrics().widthPixels;  
  
}
```

@Deprecated

```
public int getDisplayHeightPixels() {  
  
    return getResources().getDisplayMetrics().heightPixels;  
  
}
```

```
}
```