```java
package com.example.weather_app1;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.os.*;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;
import org.json.JSONObject;
import java.io.BufferedReader;
import java.io.InputStream;
import java.io.InputStreamReader;
import java.net.HttpURLConnection;
import java.net.URL;
import java.util.concurrent.ExecutionException;

public class MainActivity extends AppCompatActivity {
    TextView cityName;
    Button search;
    TextView show;
    String url;


    class getWeather extends AsyncTask<String, Void, String>{
        @Override
        protected String doInBackground(String... urls){
            StringBuilder result = new StringBuilder();
            try{
                URL url=new URL(urls[0]);
                HttpURLConnection urlConnection = (HttpURLConnection) url.openConnection();
                urlConnection.connect();

                InputStream inputStream = urlConnection.getInputStream();
                BufferedReader reader = new BufferedReader(new InputStreamReader(inputStream));
```

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36
37                  String line="";
38                  while((line = reader.readLine()) !=
   null){
39                      result.append(line).append("\n");
40                  }
41                  return result.toString();
42              }catch(Exception e){
43                  e.printStackTrace();
44                  return null;
45              }
46          }
47          @Override
48          protected void onPostExecute(String result){
49              super.onPostExecute(result);
50              try{
51                  JSONObject jsonObject = new
   JSONObject(result);
52                  String weatherInfo = jsonObject.
   getString( "main");
53                  weatherInfo = weatherInfo.replace( "
   temp","Temperature");
54                  weatherInfo = weatherInfo.replace( "
   feels_like","Feels Like");
55                  weatherInfo = weatherInfo.replace( "
   temp_max","Temperature Max");
56                  weatherInfo = weatherInfo.replace( "
   temp_min","Temperature Min");
57                  weatherInfo = weatherInfo.replace( "
   pressure","Pressure");
58                  weatherInfo = weatherInfo.replace( "
   humidity","Humidity");
59                  weatherInfo = weatherInfo.replace(
   "{","");
60                  weatherInfo = weatherInfo.replace(
   "}","");
61                  weatherInfo = weatherInfo.replace(
   ",","\n");
62                  weatherInfo = weatherInfo.replace(
   ":",":");
63
```

```
64                  show.setText(weatherInfo);
65              }catch(Exception e){
66                  e.printStackTrace();
67              }
68          }
69      }
70      @Override
71      protected void onCreate(Bundle
    savedInstanceState) {
72          super.onCreate(savedInstanceState);
73          setContentView(R.layout.activity_main);
74          cityName = findViewById(R.id.cityName);
75          search = findViewById(R.id.search);
76          show = findViewById(R.id.weather);
77
78          final String[] temp={""};
79
80          search.setOnClickListener(new View.
    OnClickListener() {
81              @Override
82              public void onClick(View v) {
83                  Toast.makeText(MainActivity.this, "
    Button Clicked", Toast.LENGTH_SHORT).show();
84                  String city = cityName.getText().
    toString();
85                  try {
86                      if (city!=null){
87                          url = "https://api.
    openweathermap.org/data/2.5/weather?q=" + city + "&
    appid=5728b1ef638af72f2c8f5b1415c37945";
88                      } else {
89                          Toast.makeText(MainActivity.
    this, "Enter City", Toast.LENGTH_SHORT).show();
90                      }
91                      getWeather task= new getWeather
    ();
92                      temp[0] = task.execute(url).get
    ();
93                  } catch (ExecutionException e){
94                      e.printStackTrace();
95                  } catch (InterruptedException e) {
```

```
 96                         throw new RuntimeException(e);
 97                     }
 98                     if (temp[0] == null) {
 99                         show.setText("Cannot able to
    find Weather");
100                     }
101
102                 }
103             });
104
105     }
106 }
```