

## CODE FOR WEATHER APPLICATION

### In MainActivity.java

```
public class MainActivity extends AppCompatActivity {

    EditText cityField;
    TextView resultWeather;
    String cityToFind;

    @Override
    Protected void onCreate(Bundle savedInstanceState) {
        Super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Toolbar toolbar = (Toolbar) findViewById(R.id.toolbar);
        setSupportActionBar(toolbar);

        cityField= (EditText) findViewById(R.id.editText);
        resultWeather= (TextView) findViewById(R.id.textView);

        FloatingActionButton fab=( FloatingActionButton) findViewById(R.id.fab);
        fab.setOnClickListener(new View.OnClickListener() {
            @Override
            Public void onClickListener() {
                Snackbar.make(view,"Replace with your own action", Snackbar.LENGTH_LONG)
                    .setAction("Action",null).show();

                FindWeather(view);

            }
        });

        Public void FindWeather(View v){
            cityToFind = cityField.getText().toString();

            try{

                ExecuteTask tasky = new ExecuteTask();
                Tasky.execute(http://api.openweathermap.org/data/2.5/weather?q="+cityToFind+ "&APPID=157b80432b020e631c8570dde1205005");
            }catch (Exception e){
                e.printStackTrace();
            }

        }

        public class ExecuteTask extends AsyncTask<String, Void, String> {
            @Override
            protected String doInBackground(String... strings) {

                @Override
                Protected void onPostExecute(String s){
                    Super. onPostExecute(s);

                    Try{
                        String message = "";

                        JSONObject jsonObject = new JSONObject (s);
                        String infoWeatherToday = jsonObject.getString("weather");
                        JSONArray array = new JSONArray(infoWeatherToday);

                        for(int i=0; i <array.length() ;i++){
                            JSONObject jsonsecondary = array.getJSONObject(i);

                            String main = "";
                            String description = "";
                        }
                    }
                }
            }
        }
    }
}
```

```

Main = jsonSecondary = array.getString("main");
Description = jsonSecondary.getString("description");

If(main != "" && description != ""){

message += main + "\n " + description + "\r\n";

}

}
If (message != ""){
resultWeather.setText(message);
}
Else{
Toast.makeText(MainActivity.this," An Error Occurred", Toast.LENGTH_SHORT).show();
}
}catch (JSONException e){
e.printStackTrace();
}
}
String result = "";
URL url;
URLConnection urlConnection = null;

Try{

url = new URL(strings[0]);

urlConnection = (URLConnection) url.openConnection();
InputStream is = urlConnection.getInputStream();
InputStreamReader reader = new InputStreamReader(is);
int data = reader.read();
while (data != -1) {
char current =(char) data;
result += current;
data = reader.read();
}
return result;

}catch (MalformedURLException e) {
e.printStackTrace();
}catch(IOException e) {
e.printStackTrace();
}
return null;
}
}

@Override
Public boolean onCreateOptionsMenu(Menu menu) {
getMenuInflater().inflate(R.menu.menu_main, menu);
return true;
}

@Override
Public Boolean onOptionsItemSelected(MenuItem item) {
Int id = item.getItemId();

```

## AndroidManifest.xml

```
<uses-permission android:name="android.permission.INTERNET"/>
```