Retrofit_example

in Manifest file give permission

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

MainAcitivity.java

```java
package com.example.retrofit_example;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.TextView;
import java.util.List;
import retrofit2.Call;
import retrofit2.Callback;
import retrofit2.Response;
import retrofit2.Retrofit;
import retrofit2.converter.gson.GsonConverterFactory;
public class MainActivity extends AppCompatActivity {
    TextView datatextview;
    String Jsonurl="https://jsonplaceholder.typicode.com/";
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        datatextview=findViewById(R.id.datatextview);
        Retrofit retrofit=new
Retrofit.Builder().baseUrl(Jsonurl).addConverterFactory(GsonConverterFactory.create()).build();
        MyAPI api=retrofit.create(MyAPI.class);
        Call<List<Model>> call=api.getModelData();
        call.enqueue(new Callback<List<Model>>() {
            @Override
            public void onResponse(Call<List<Model>> call, Response<List<Model>> response) {
                List<Model> data=response.body();
                for (int i=0;i<data.size();i++){
                    datatextview.append("Serial
Number="+data.get(i).getId()+"\n"+data.get(i).getTitle()+"\n\n\n");
                }
            }
            @Override
            public void onFailure(Call<List<Model>> call, Throwable t) {
            }
        });
    }
}
```

activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">
    <ScrollView
        android:layout_width="match_parent"
        android:layout_height="match_parent">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:id="@+id/datatextview"
            android:text="Demo"
            android:textSize="20dp"
            android:textStyle="bold"
            android:layout_margin="20dp">
        </TextView>
    </ScrollView>
</LinearLayout>
```

Create class Model

```java
package com.example.retrofit_example;
public class Model {
    private int userId;
    private int id;
    private String title;
    private String body;
    public void setUserId(int userId) {
        this.userId = userId;
    }
    public void setId(int id) {
        this.id = id;
    }
    public void setTitle(String title) {
        this.title = title;
    }
    public void setBody(String body) {
        this.body = body;
    }
    public int getUserId() {
        return userId;
    }
    public int getId() {
        return id;
    }
}
```

```java
    public String getTitle() {
        return title;
    }
    public String getBody() {
        return body;
    }
    public Model(int userId, int id, String title, String body) {
        this.userId = userId;
        this.id = id;
        this.title = title;
        this.body = body;
    }
}
```

Create interface MyAPI

```java
package com.example.retrofit_example;
import java.util.List;
import retrofit2.Call;
import retrofit2.http.GET;
public interface MyAPI {
    @GET("posts")
    Call<List<Model>> getModelData();
}
```

In build.gradle(model)

add

implementation **'com.squareup.retrofit2:retrofit:2.5.0'**
implementation **'com.squareup.retrofit2:converter-gson:2.5.0'**

in dependences()