

Práctica Google Gson

Código:

```
//package com.mkkyong.java11.jep321;

import java.io.IOException;
import java.net.URI;
import java.net.http.HttpClient;
import java.net.http.HttpRequest;
import java.net.http.HttpResponse;
import java.time.Duration;
import java.net.URLEncoder;
import java.nio.charset.StandardCharsets;
import com.google.gson.*;

public class HttpClientSynchronous {
    private static final HttpClient httpClient = HttpClient.newBuilder()
        .version(HttpClient.Version.HTTP_1_1)
        .connectTimeout(Duration.ofSeconds(10))
        .build();

    public static void main(String[] args) throws IOException, InterruptedException {
        // Obtener 3 citas
        HttpRequest citasRequest = HttpRequest.newBuilder()
            .uri(URI.create("https://api.breakingbadquotes.xyz/v1/quotes/3"))
            .build();

        HttpResponse<String> citasResponse = httpClient.send(citasRequest,
            HttpResponse.BodyHandlers.ofString());
        System.out.println(citasResponse.body());
        System.out.println("\n\n");

        // Convertir la respuesta a JsonArray
        JsonArray citasArray = JsonParser.parseString(citasResponse.body()).getAsJsonArray();

        // Procesar cada cita
        for (int i = 0; i < citasArray.size(); i++) {
            JsonObject citaObject = citasArray.get(i).getAsJsonObject();
            String citaOriginal = citaObject.get("quote").getString();
            String author = citaObject.get("author").getString();
        }
    }
}
```

```
// Traducir la cita al español
String citaTraducida = translateText(citaOriginal);
// Mostrar resultados
System.out.println("Autor: " + author);
System.out.println("Cita: " + citaOriginal);
System.out.println("Traducción: " + citaTraducida);
System.out.println();
}
}

private static String translateText(String text) throws IOException, InterruptedException {
// Codificar el texto para URL
String encodedText = URLEncoder.encode(text, StandardCharsets.UTF_8);
// Crear la petición a Google Translate API
HttpRequest request = HttpRequest.newBuilder()
.uri(URI.create("https://translation.googleapis.com/language/translate/v2?
target=es&key=AIzaSyDyFDn7L2OEP5xsQbdk80qXwQhCfNDi1D8&q=" + encodedText))
.setHeader("User-Agent", "Java 17 HttpClient Bot")
.build();

HttpResponse<String> response = httpClient.send(request, HttpResponse.BodyHandlers.ofString());

// Extraer el texto traducido de la respuesta JSON
JsonObject responseJson = JsonParser.parseString(response.body()).getAsJsonObject();
JsonObject data = responseJson.getAsJsonObject("data");
JsonArray translations = data.getAsJsonArray("translations");
String translatedText = translations.get(0).getAsJsonObject().get("translatedText").getString();

return translatedText;
}
}
```

Captura de pantalla:

```
mikles64@mikles64:~/Documentos/Distribuidos/Clase23$ javac -cp .:gson-2.10.1.jar HttpClientSynchronous.java
mikles64@mikles64:~/Documentos/Distribuidos/Clase23$ java -cp .:gson-2.10.1.jar HttpClientSynchronous

[{"quote":"We're all on the same page. The one that says, if I can't kill you, you'll sure as shit wish you were dead.","author":"Jesse Pinkman"}, {"quote":"Yo, yo yo, 148-3 to the 3 to the 6 to the 9, representing the ABQ, what up biatch? Leave it at the tone.","author":"Jesse Pinkman"}, {"quote":"I do not believe fear to be an effective motivator. I want investment. For now, I'm simply interested in time frame.","author":"Gustavo Fring"}]
```

Autor: Jesse Pinkman
Cita: We're all on the same page. The one that says, if I can't kill you, you'll sure as shit wish you were dead.
Traducción: Estamos todos de acuerdo. El que dice: si no puedo matarte, seguro que desearás estar muerto.

Autor: Jesse Pinkman
Cita: Yo, yo yo, 148-3 to the 3 to the 6 to the 9, representing the ABQ, what up biatch? Leave it at the tone.
Traducción: Yo, yo, yo, 148-3 elevado a 3 elevado a 6 elevado a 9, representando el ABQ, ¿qué pasa, zorra? Déjalo en el tono.

Autor: Gustavo Fring
Cita: I do not believe fear to be an effective motivator. I want investment. For now, I'm simply interested in time frame.
Traducción: No creo que el miedo sea un motivador eficaz. Quiero inversión. Por ahora, simplemente me interesa el plazo.

```
mikles64@mikles64:~/Documentos/Distribuidos/Clase23$
```