

~/task 1

```
1  import java.io.BufferedReader;
2  import java.io.InputStreamReader;
3  import java.io.OutputStream;
4  import java.net.HttpURLConnection;
5  import java.net.URL;
6  import java.net.URLEncoder;
7  import java.util.Scanner;
8
9  public class LanguageTranslator {
10
11      public static void main(String[] args) {
12          Scanner scanner = new Scanner(System.in);
13
14          // Get input text from user
15          System.out.print("Enter text to translate: ");
16          String inputText = scanner.nextLine();
17
18          System.out.print("From language (e.g. en): ");
19          String fromLang = scanner.nextLine();
20
21          System.out.print("To language (e.g. fr): ");
22          String toLang = scanner.nextLine();
23
24          try {
25              // Google Translate unofficial API endpoint
26              String urlStr =
27                  "https://translate.googleapis.com/translate_a/single?client=gtx"
28                  + "&sl=" + fromLang
29                  + "&tl=" + toLang
30                  + "&dt=t&q=" + URLEncoder.encode(inputText, "UTF-8");
31
32              URL url = new URL(urlStr);
33              HttpURLConnection conn = (HttpURLConnection) url.openConnection();
34              conn.setRequestMethod("GET");
35
36              // Read the response
37              BufferedReader in = new BufferedReader(new
38                  InputStreamReader(conn.getInputStream()));
39              String inputLine;
40              StringBuilder response = new StringBuilder();
41
42              while ((inputLine = in.readLine()) != null) {
43                  response.append(inputLine);
44              }
45              in.close();
46          }
```

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45         // The API returns nested JSON array, but we'll just extract the
translated part
46         String result = response.toString().split("\\\\")[1];
47         System.out.println("Translated Text: " + result);
48
49     } catch (Exception e) {
50         e.printStackTrace();
51     }
52
53     scanner.close();
54 }
55 }
56 }
```