

➤ **Prerequisite:**

- Python Python 3.5+

➤ **Library Installation:**

- Pyiwn
- Nltk
- Request
- Bs4
- Html5lib

To install the above libraries, open the command line interface (CMD) and type the following commands:

- pip install --upgrade pyiwn

(You can learn more about pyiwn library here: <https://github.com/cfiltnlp/pyiwn>)

- pip install nltk
- pip install requests
- pip install bs4
- pip install html5lib

➤ **How to Run:**

Unzip the folder and run it on any python IDE (We have used PyCharm)

NOTE: While running the program, connect your laptop to the internet.

The folders present in the zip file are as follow:

1) **engtogujR:**

Convert the script of the word from English to Gujarati

- **Input:** A word in English script
- **Output:** A word in Gujarati script

```
Enter word: talavar  
['t', 'a', 'l', 'a', 'v', 'a', 'a', 'r']  
તલવર
```

2) **gujtoeng:**

Convert the script of the word from Gujarati to English

- **Input:** A word in Gujarati script
- **Output:** A word in English script

```
Enter Gujarati word: તલવર  
['t', 'a', 'l', 'a', 'v', 'a', 'a', 'r']  
5  
talavar
```

3) pythonProject:

Identify the script (only English and Gujarati) of the given sentence and find the number of words in each script

- **Input:** A sentence written in English or Gujarati or both script
- **Output:** Script name and numbers of words of that script

```
Enter multiple value: Hello માટે નામ હોવા છે
Language: Code Mix (Gujarati + English)
No of Gujarati words: 4
No of English words: 1
```

4) indowordnet:

Find the language and script (only English and Gujarati) of the given word using Indo WordNet.

- **Input:** A word in English or Gujarati script
- **Output:** Script and language of given word

NOTE: It will take some seconds to start executing.

```
Enter value: patang
patang
Script: English
Language: Gujarati
```

5) AllLangId:

Find the language and script (Only English, Gujarati and Hindi) of the given sentence using Indo WordNet.

- Run the main.py file
- **Input:** A sentence in English or Gujarati or Hindi script
- **Output:** Script and language of every word in the sentence, number of words in each language and script, translated words from English to Hindi and Gujarati

NOTE: It will take some seconds to start executing.

```
Enter sentence: આ car છે
આ : Gujarati
car : English
translate Gujarati word ['સીર']
translate Hindi word: ['कर']
कर : Hindi
છે : Gujarati
Script: Gujarati, words: 2
Script: English, words: 1
Language: Gujarati, words: 2
Language: English, words: 1
Language: Hindi, words: 1
```

6) Random:

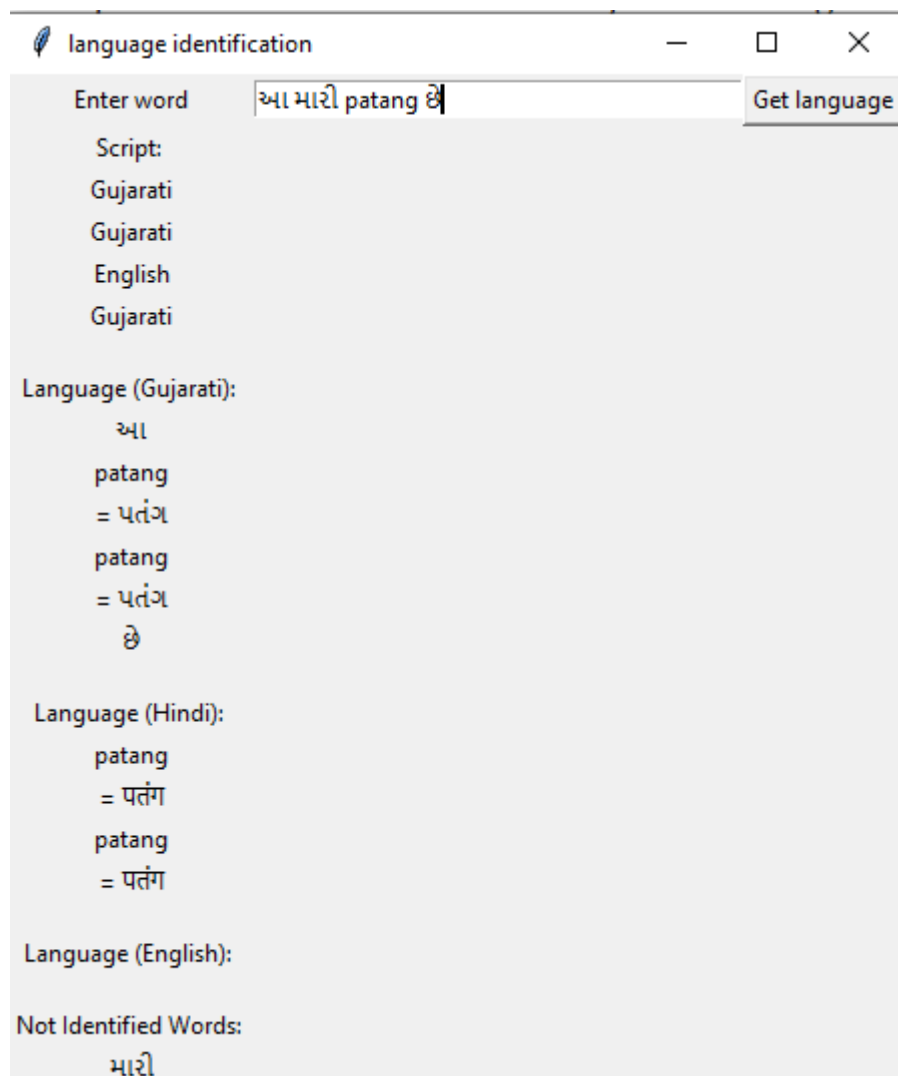
Consists of two folders:

- **Eng_guj:**
 - ➔ Contains Multiple versions of English script to Gujarati script translation.
 - ➔ Final version is eng_guj7.py
 - ➔ **Input:** A word in English script
 - ➔ **Output:** every possible combination of Gujarati script of given word

```
Enter: pani  
['પંઠ', 'પનિ', 'પાનિ', 'પણિ', 'પાણિ', 'પંઈ', 'પની', 'પાની', 'પણી', 'પાણી']
```

- **Gui:**
 - ➔ Provide GUI for Language and Script identification of sentence

NOTE: It will take some seconds to start executing.



7) **web scrapping:**

Scarp English words from a dictionary from here: <https://www.dictionary.com/list/A>

and Scrap Gujarati pronunciation of scrapped English words in Gujarati script using this website:

<https://www.gujaratilexicon.com/dictionary/english-to-gujarati-translation/>

Run eng_dict.py

(Tip: Use a file to store the scrapped words and pronunciation)