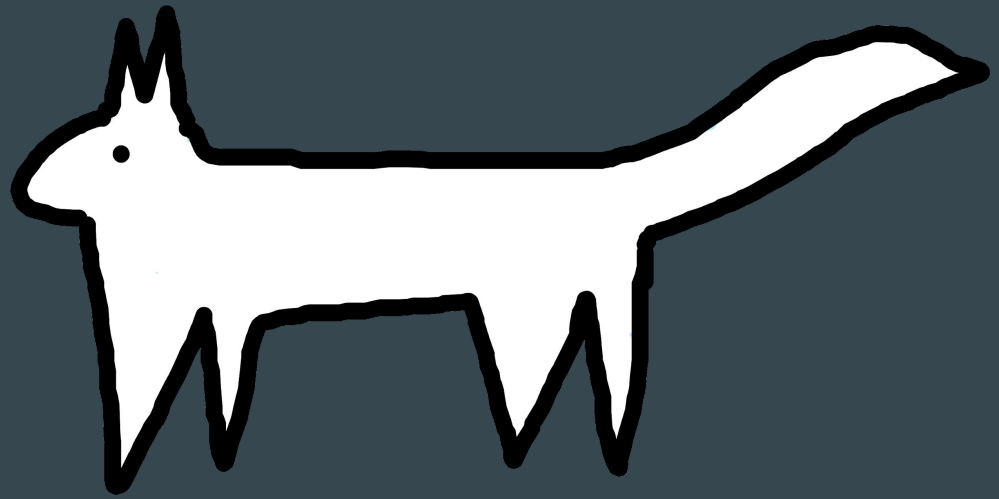
Python Tutorial

Lab 2

卡咪狗 - Kamigo



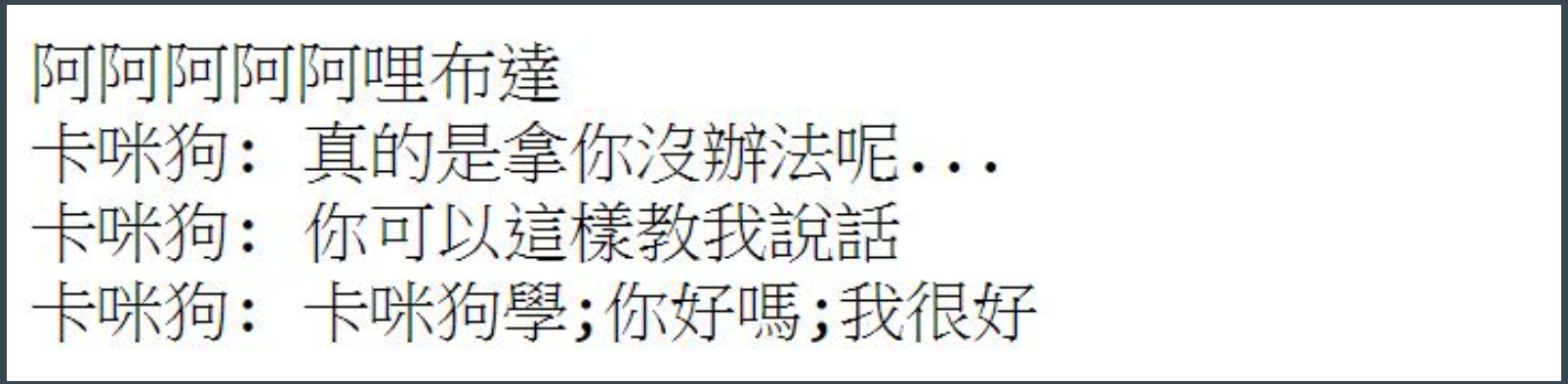
https://www.kamigo.tw/

Task 1

Your Kamigo have to reply certain sentences if it recognize known messages.

Task 2

Your Kamigo have to give a proper hint when it couldn’t recognize the given message.



Task 3

Your Kamigo have to recognize and parse a TEACHING COMMAND to learn to recognize new messages.

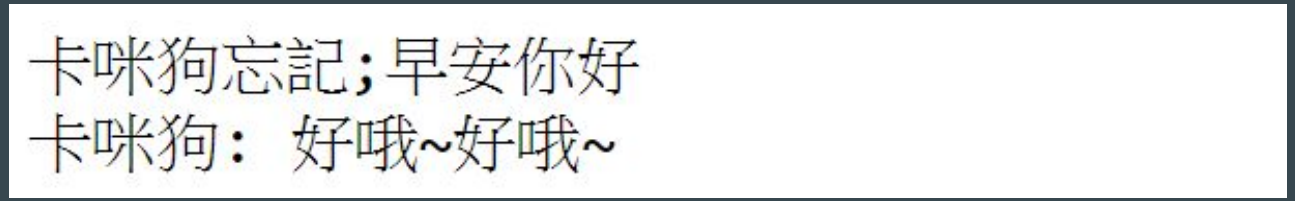
TEACHING COMMAND: 卡咪狗學;Q;A

卡咪狗學;早安你好;認同請分享
卡咪狗： 好哦~好哦~

Task 4

Your Kamigo won’t recognize certain message after a FORGOT COMMAND is given to a certain message.

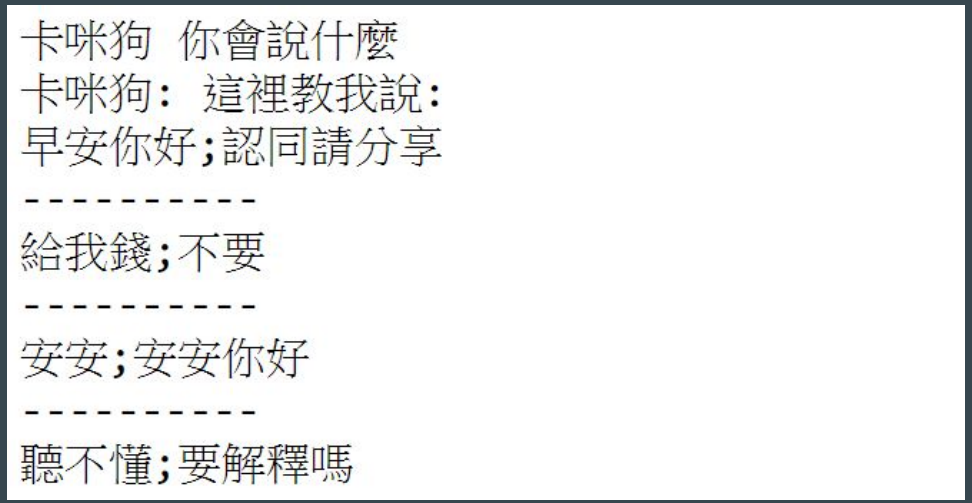
FORGOT COMMAND: 卡咪狗;Q



Task 5

Your Kamigo has to dump out all the known messages & replies when a WHAT YOU KNOW COMMAND is given.

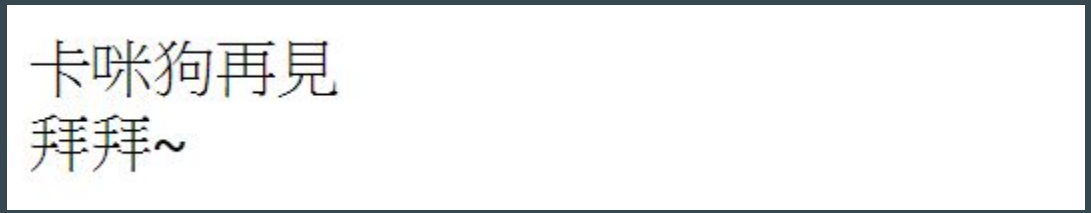
WHAT YOU KNOW COMMAND: 卡咪狗 你會說什麼



Task 6

Your Kamigo stops when a GOODBYE COMMAND is received.

GOODBYE COMMAND: 卡咪狗再見



Note

Your Kamigo have to recognize newly taught messages when it is summoned again. i.e. Kamigo’s updated knowledge has to be stored to a file.

A JSON file is given. This file stores the knowledge of a Kamigo. Your Kamigo have to load the knowledge from this file and update the knowledge to this file.

The code for loading and stroing file are also given.

JSON

python dictionary

```python
my_dict = {
    "a": "A",
    "b": "B",
    "c": "C",
    "d": "D"
}
```

json file

```json
{"a": "A", "b": "B", "c": "C", "d": "D"}
```

Loading & Stroing JSON

```
import json

def load_dictionary_from_json(filename):
    with open(filename) as f:
        return json.load(f)

def save_dictionary_to_json(data, filename):
    with open(filename, 'w') as f:
        json.dump(data, f)
```