README

1. Create Environment (Windows)

1. **Open** *Anaconda Prompt*
2. **Switch to the project directory**

   (1) Switch drive: :

   ```
   #for example switch to D:
   D:
   ```

   (2) Switch directory :

   ```
   cd [directory name]
   ```

3. **Activate anaconda**

   (1) activate conda

   ```
   conda activate
   ```

   (2) create python3.7

   ```
   conda create -n speech python=3.7
   ```

   (3) activate speech

   ```
   conda activate speech
   ```

4. **Pip tuna.tsinghua**

```
pip config set global.index-url https://pypi.tuna.tsinghua.edu.cn/simple
```

5. **Install SpeechRecognition**

```
pip install SpeechRecognition
```

6. **[optional] Install PocketSphinx (Windows)**

   Remind if you are sure that you have good connections to google, you can skip this step.

   To improve the accuracy of speech recognition, you are suggested to connect to vpn.

   (1) download whl document

   ```
   https://download.lfd.uci.edu/pythonlibs/archived/cp37/pocketsphinx-0.1.15-
   cp37-cp37m-win_amd64.whl
   ```

   (2) put whl document into the project directory

(3) install whl document

```
pip install pocketsphinx-0.1.15-cp37-cp37m-win_amd64.whl
```

7. **Install PyAudio**

```
pip install PyAudio
```

8. **Install PyQT5**

```
pip install PyQT5
```

Run asr.py

1. **Open** *Anaconda Prompt*
2. **Switch to the project directory**

   (1) Switch drive: :

   ```
   #for example switch to D:
   D:
   ```
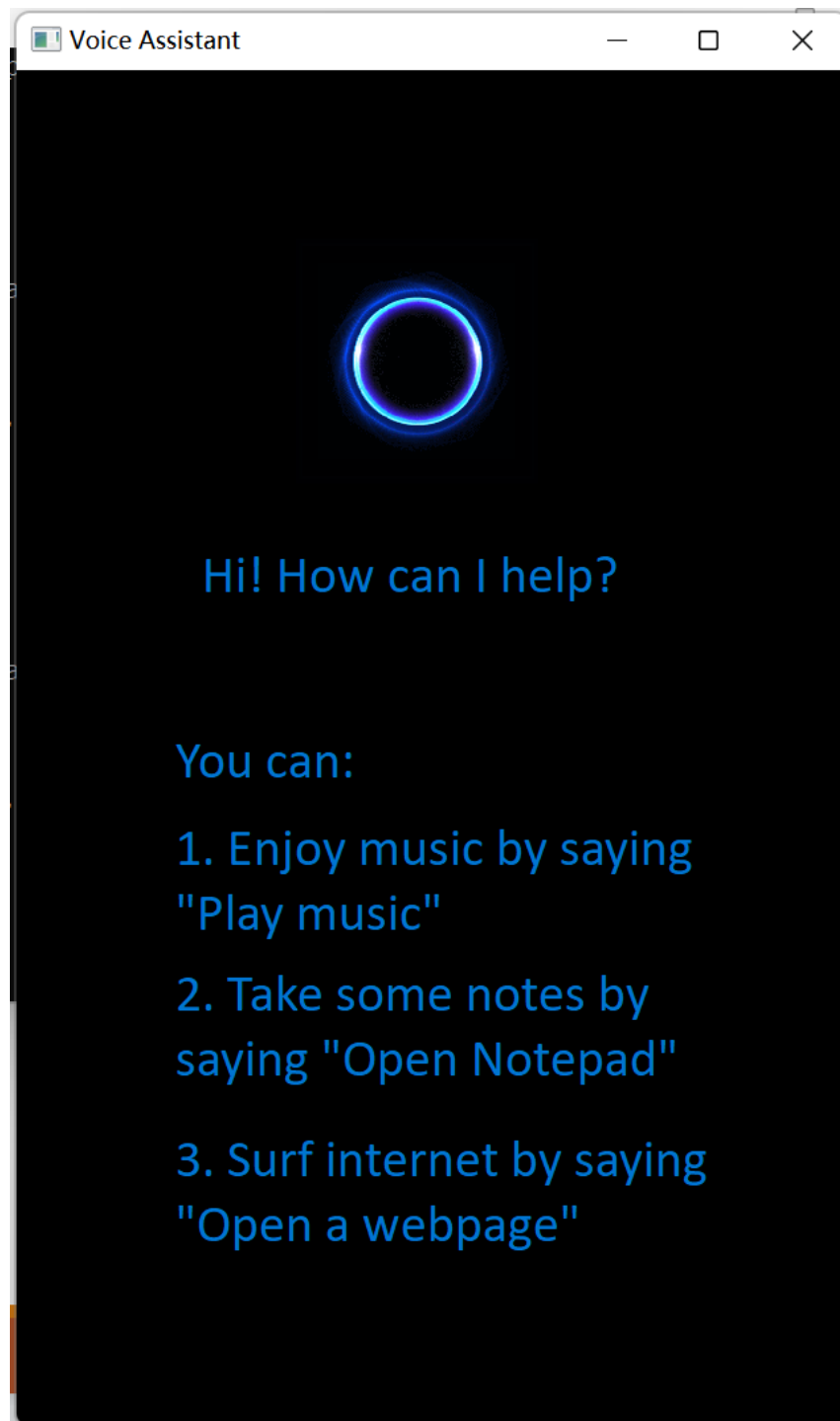
   (2) Switch directory :

   ```
   cd [directory name]
   ```

3. **Activate speech**

```
conda activate speech
```

4. **run asr.py**

```
python asr.py
```

5. **Speech and enjoy**

   (1) Enjoy music by saying "Play music"

   (2) Take some notes by saying "Open Notepad"

   (3) Surf the internet by saying "Open a webpage"