

# README

## HCI Lab1-1 : Automatic Speech Recognition

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## 1. Environment

- **Pycharm** Community Edition 2022.1.3
- **Windows** 10 Professional

Please `download` these packages to configure your python enviroment before you use it. And make sure that the internet is connected.

```
pywhatkit  
pypiwin32  
PyQt5  
gtts  
playsound  
SpeechRecognition
```

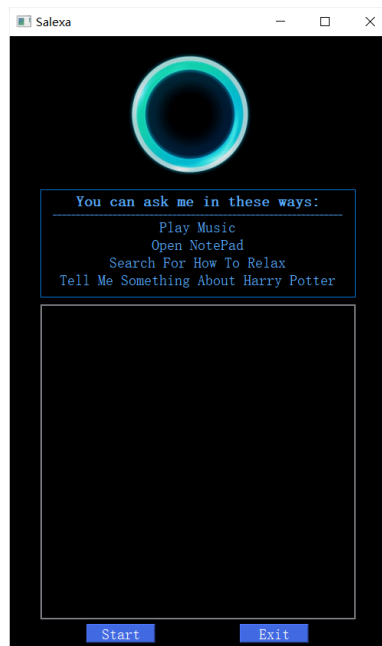
## 2. Usage



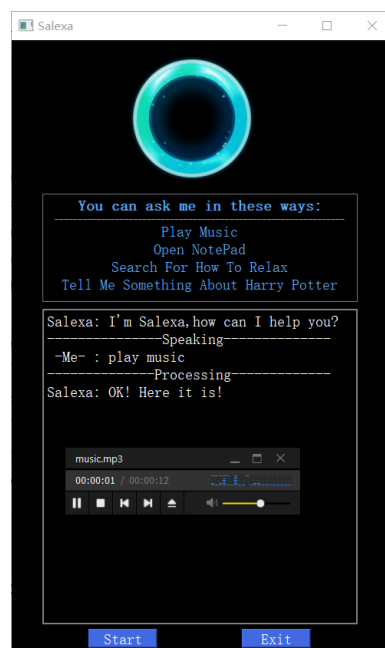
### Highlights :

- ① Using different GIF stands for different period.
- ② The voice assistant Salexa can read out the text if the website is connected.
- ③ The voice assistant Salexa can search on the Internet.
- ④ Use multi-threading to make the GUI more interactive.

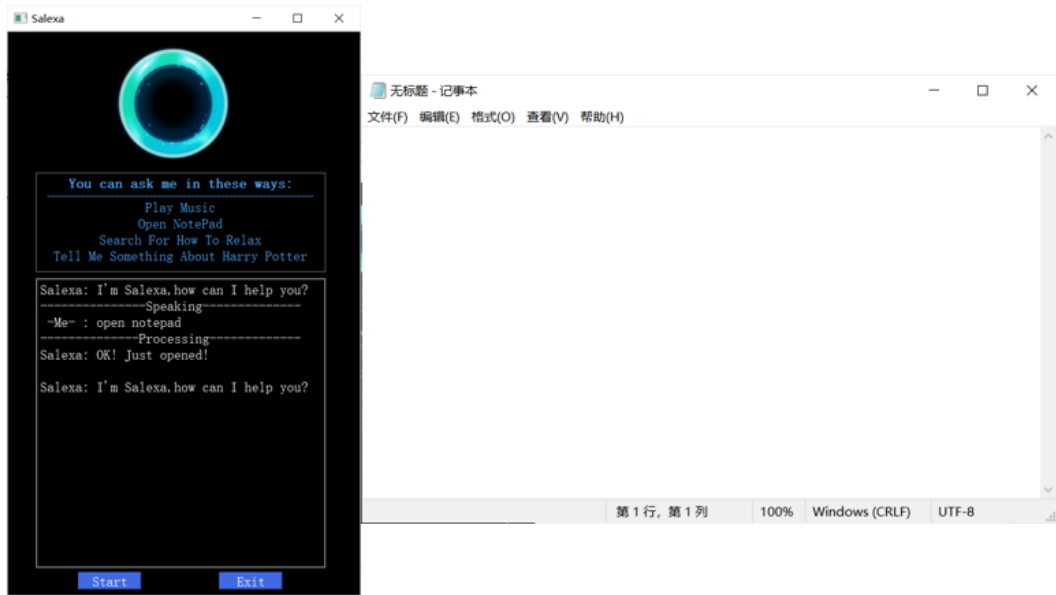
- Run the `main.py` file.
- Click the **Start** button to wake up Salexa.



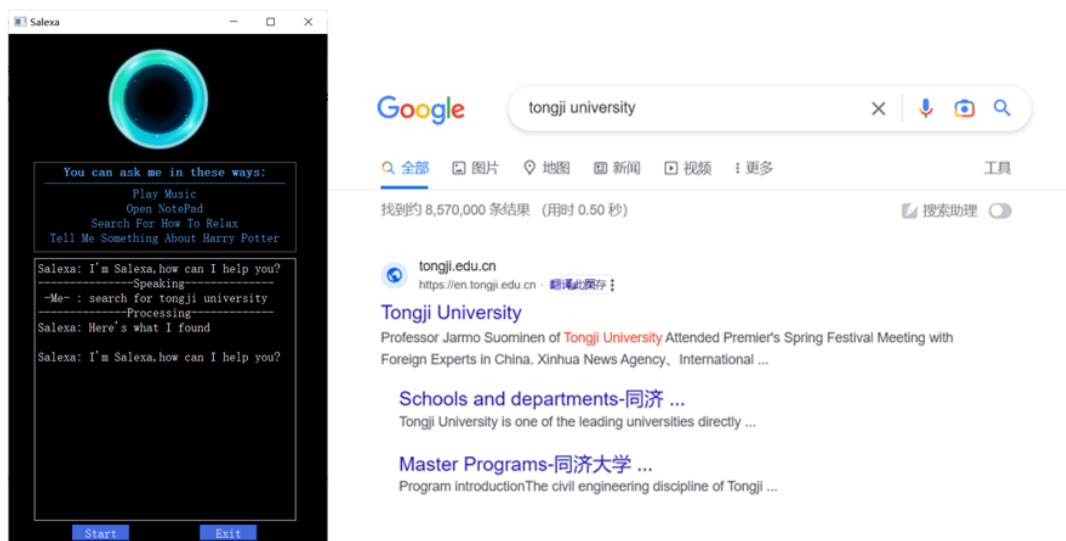
- After starting the assistant, you can say different commands to use different functions.
  - **Play music** → Say "*Play music*"



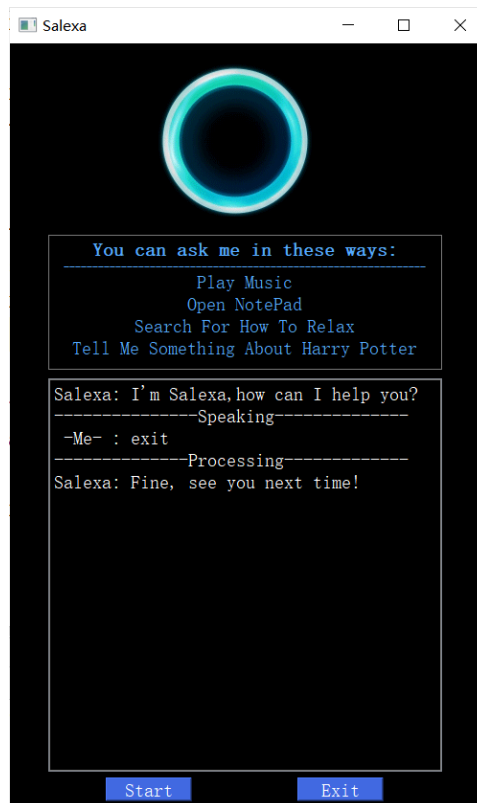
- **Open a text file** → Say "*Open notepad*"



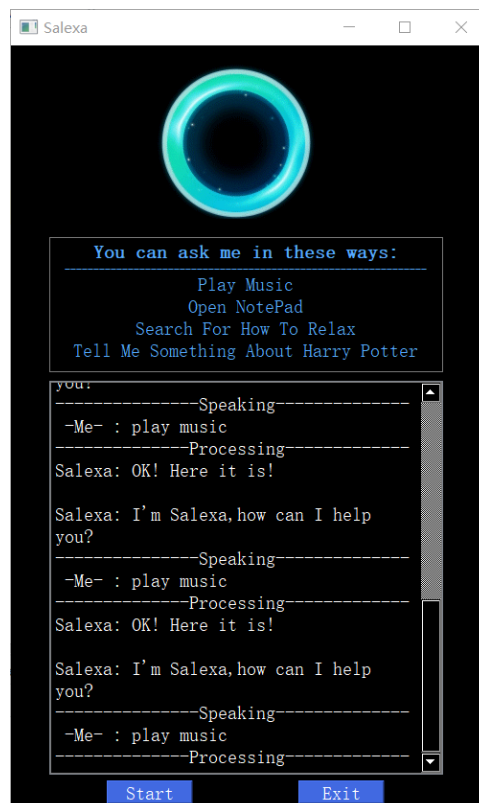
- **Search on the internet** → Say “*Search for XXX*” or “*Tell me Something about XXX*” or just say “*XXX*”



- **Exit the page** → Say “*Exit*” or “*Stop*”
- Certainly, you can also exit the page by click the **Exit** button.



- In addition, you can pull the **scroll bar** to see what you just said.



### 3. Structure

```
| main.py  
| music.mp3  
├ icon  
|   listen.gif  
|   loading.gif  
|   normal.gif  
|   play.gif  
└ sounds  
    alert.mp3  
    output.mp3
```

### 4. References

- [How to CODE Siri or Alexa](#) by SalteeKiller
- [the Tutorial of PyQt5](#) by itprojects.cn
- [Gif Icons](#)