LAPORAN

Kecerdasan Buatan

Laporan Praktikum Speech Recognition

Ketua/Anggota Tim

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PROGRAM STUDI INFORMATIKA

FAKULTAS TEKNIK

UNIVERSITAS KATOLIK DARMA CENDIKA

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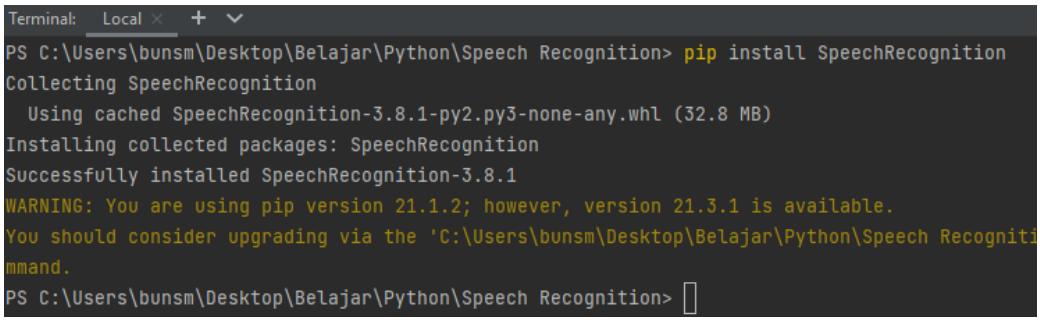
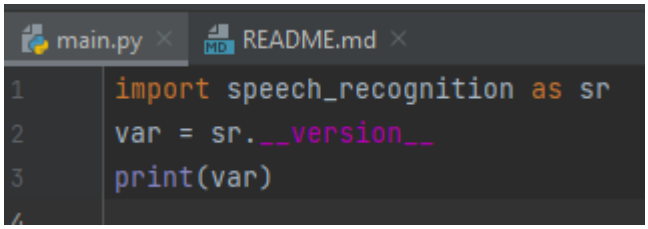
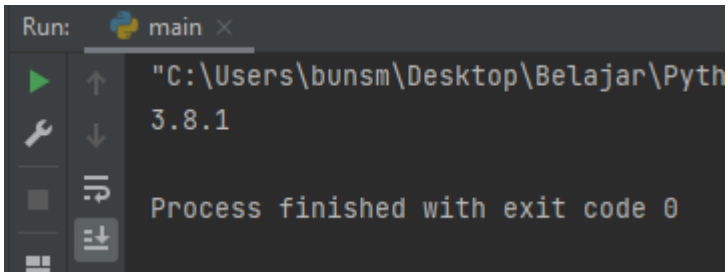
Disini saya menggunakan IDE PyCarm

Pertama install Speech Recognition

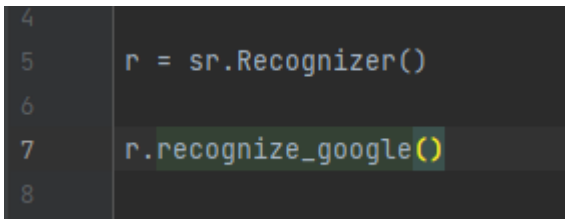


Kita cek versi dari speech recognition





Kita buat Recognizer disini kita bisa ngambil dari recognize yang sudah terkenal



menggunakan Audio Files

```
harvard = sr.AudioFile('audio/OSR_us_000_0010_8k.wav')
with harvard as source:
    audio = r.record(source)

print(type(audio))

print(r.recognize_google(audio))
```

```
main
"C:\Users\bunsm\Desktop\Belajar\Python\Speech Recognition\venv\Scripts\python.exe" "C:/Users/bunsm/Desktop/Belajar/Python/Speech Recognition/main.
<class 'speech_recognition.AudioData'>
Birch canoe slid on the smooth plank glue the sea to a dark blue background it is easy to tell the depth of the well these days a chicken leg of a

Process finished with exit code 0
```

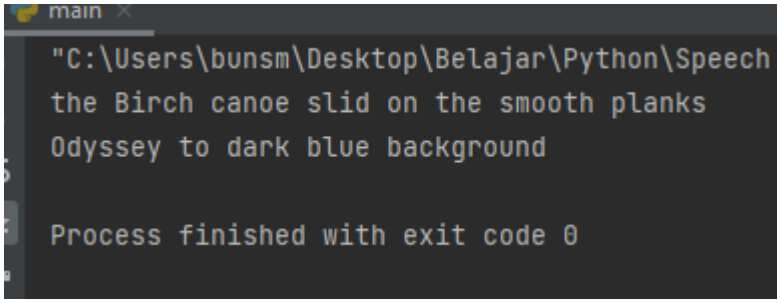
Membuat duration

```
16      with harvard as source:
17          audio = r.record(source, duration=2)
18      print(r.recognize_google(audio))
19
```

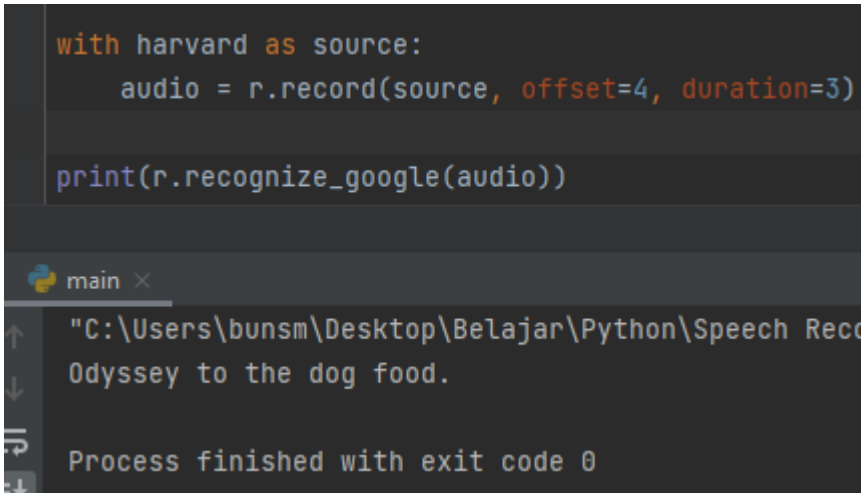
```
main
"C:\Users\bunsm\Desktop\Belajar\Python
Birch canoe

Process finished with exit code 0
```

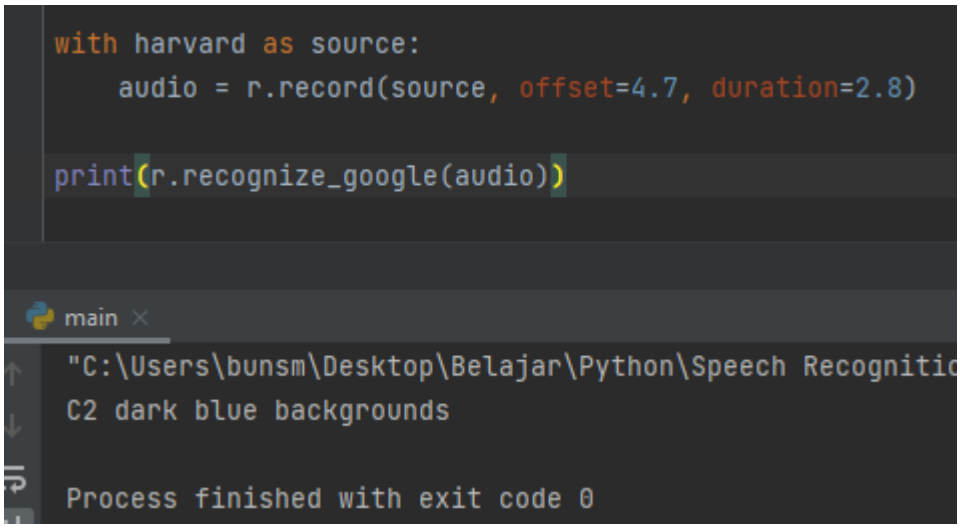
dua kali duration

```
with harvard as source:
    audio1 = r.record(source, duration=4)
    audio2 = r.record(source, duration=4)

print(r.recognize_google(audio1))

print(r.recognize_google(audio2))
```

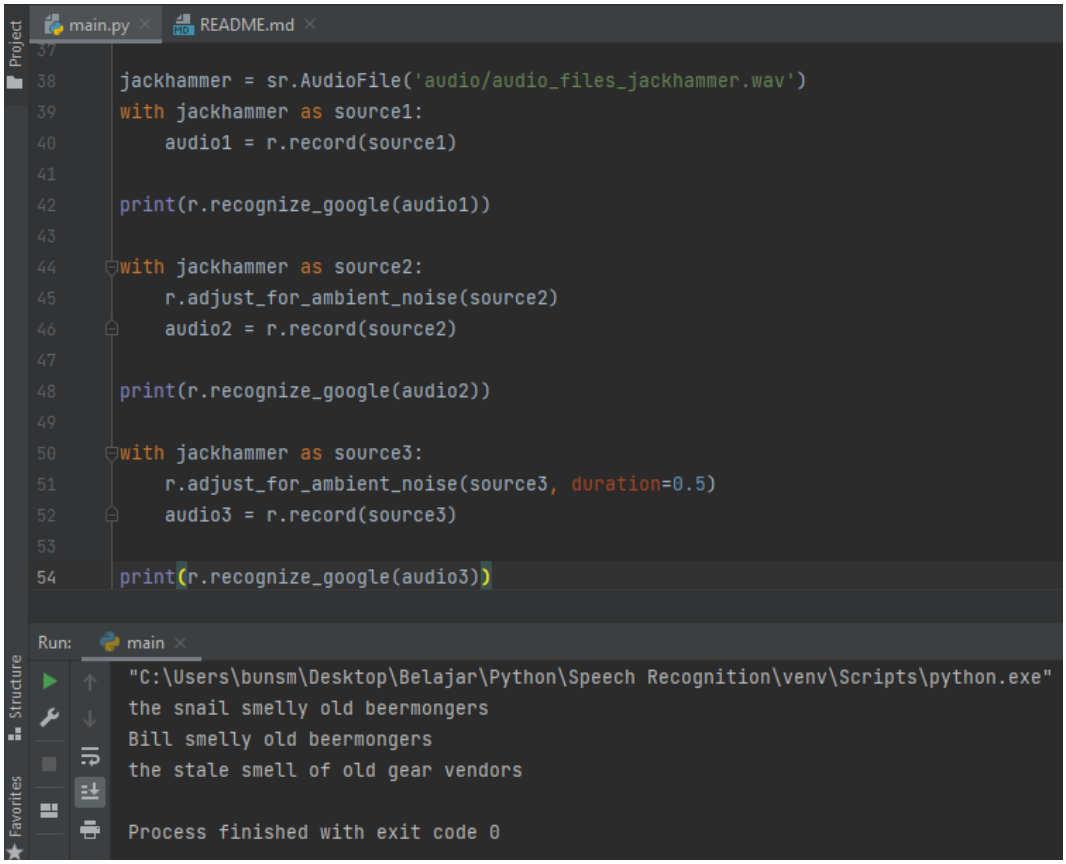


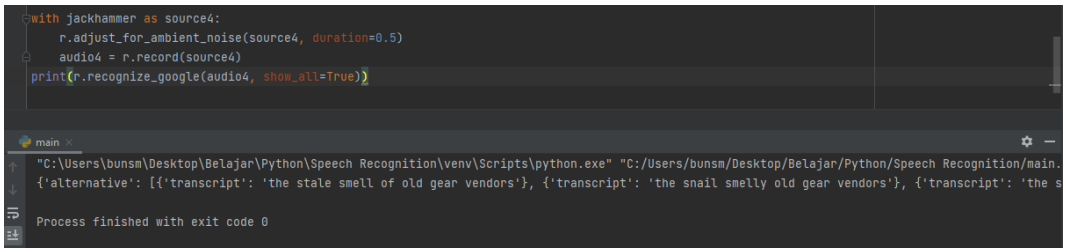
Duration dan Offset





The Effect of Noise on Speech Recognition





Working With Microphones

Install pyaudio

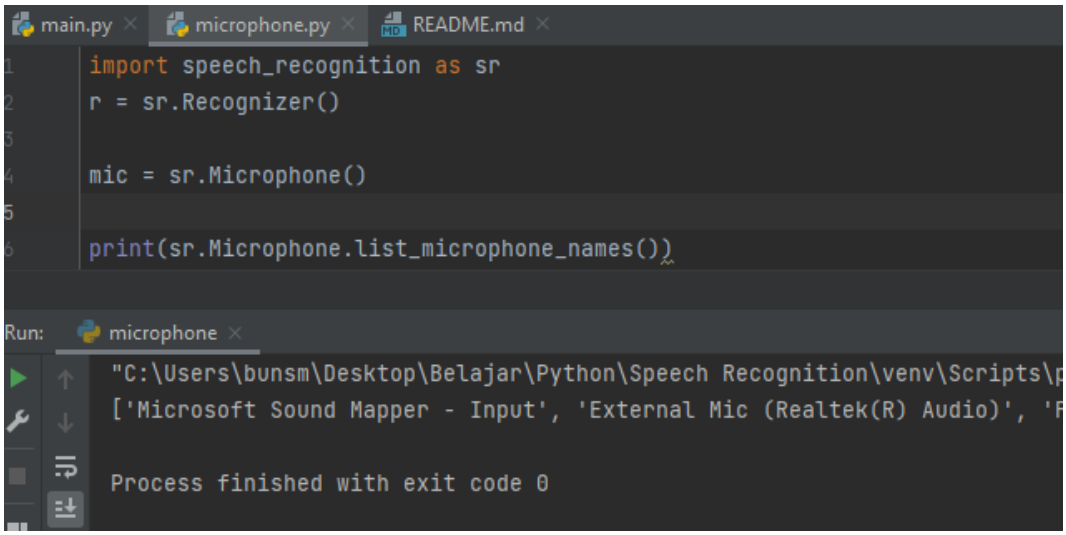
```
PS C:\Users\bunsm\Desktop\Belajar\Python\Speech Recognition> pip install pyaudio
```

Saya menggunakan pip error jadi saya menggunakan pipwin

```
PS C:\Users\bunsm\Desktop\Belajar\Python\Speech Recognition> pip install pipwin
```

```
PS C:\Users\bunsm\Desktop\Belajar\Python\Speech Recognition> pipwin install pyaudio
```

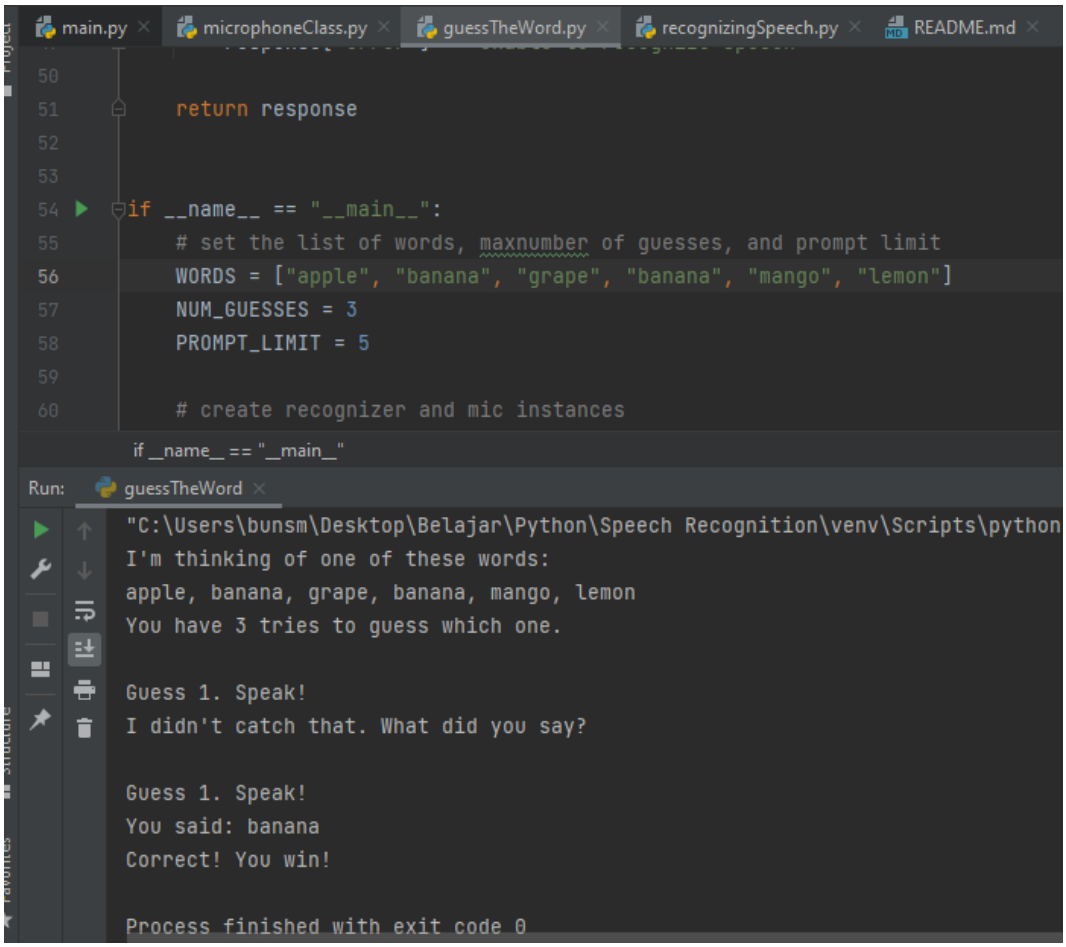
Microphone



Using listen() to Capture Microphone Input

Handling Unrecognizable Speech

Putting It All Together: A “Guess the Word” Game



Appendix: Recognizing Speech in Languages Other Than English

Disini saya merekam suara saya dengan format wav dan mengubah ke bahasa indonesia