

ASR

1. Zainstaluj przez wiersz poleceń w folderze Python: **SpeechRecognition** oraz **pyaudio**.

```
C:\Users\Jola\AppData\Local\Programs\Python\Python310>python -m pip install SpeechRecognition
C:\Users\Jola\AppData\Local\Programs\Python\Python310>python -m pip install pyaudio
```

2. W IDLE przetestuj:

```
» import speech_recognition as sr
» r = sr.Recognizer()
» with sr.Microphone() as source:
    audio = r.listen(source, timeout=10, phrase_time_limit=3)
    test_audio = r.recognize_google(audio, language='pl-PL')
» test_audio

» for index, name in enumerate(sr.Microphone.list_microphone_names()):
    print("Microphone with name \"{1}\" found for
`Microphone(device_index={0})`.format(index, name))
```

TTS

1. Zainstaluj przez wiersz poleceń w folderze Python: **pyttsx3**

```
C:\Users\Jola\AppData\Local\Programs\Python\Python310>python -m pip install pyttsx3
```

2. W IDLE przetestuj:

```
» import pyttsx3 as tts
» engine = tts.init()
» engine.runAndWait()
» engine.say("Jola ma kota.")
» engine.say("What a wonderful day!")
» engine.say("1, 2, 3")
» engine.say("13.01.2026")
```

3. Jeśli masz błąd **ModuleNotFoundError: No module named 'pywintypes'**, to skopiuj dwa pliki:

```
pywintypes310.dll
pythoncom310.dll
```

z folderu:

```
C:\Users\Jola\AppData\Local\Programs\Python\Python310\Lib\site-packages\pywin32_system32
```

do folderu:

```
C:\Users\Jola\AppData\Local\Programs\Python\Python310\Lib\site-packages\win32\lib
```

Obejrzyj: https://www.youtube.com/watch?v=ClGNW7_lxc4