```
!pip install gTTS
```

```
Collecting gTTS
  Downloading gTTS-2.5.4-py3-none-any.whl.metadata (4.1 kB)
Requirement already satisfied: requests<3,>=2.27 in /usr/local/lib/python3.11/dist-packages (from gTTS) (2.32.3)
Requirement already satisfied: click<8.2,>=7.1 in /usr/local/lib/python3.11/dist-packages (from gTTS) (8.1.8)
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.11/dist-packages (from requests<3,>=2.27->gTTS) (3
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.11/dist-packages (from requests<3,>=2.27->gTTS) (3.10)
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.11/dist-packages (from requests<3,>=2.27->gTTS) (2.3.0)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.11/dist-packages (from requests<3,>=2.27->gTTS) (2025.1
Downloading gTTS-2.5.4-py3-none-any.whl (29 kB)
Installing collected packages: gTTS
Successfully installed gTTS-2.5.4
```

```
from gtts import gTTS
```

```
convert=gTTS(text="Hello World",lang="en",slow=False)
convert.save("audio.mp3")
```

```
Start coding or generate with AI.
```

```
!pip3 install pyttsx3
```

```
Collecting pyttsx3
  Downloading pyttsx3-2.98-py3-none-any.whl.metadata (3.8 kB)
Downloading pyttsx3-2.98-py3-none-any.whl (34 kB)
Installing collected packages: pyttsx3
Successfully installed pyttsx3-2.98
```

```
!sudo apt update
!sudo apt install espeak-ng
!pip3 install pyttsx3
!apt-get install alsa-utils
```

```
import pyttsx3,time
engine=pyttsx3.init()
engine.say("Hello World")
engine.runAndWait()
```

```
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libatopology2 libfftw3-single3
Suggested packages:
  dialog libfftw3-bin libfftw3-dev
The following NEW packages will be installed:
  alsa-utils libatopology2 libfftw3-single3
0 upgraded, 3 newly installed, 0 to remove and 26 not upgraded.
Need to get 2,028 kB of archives.
After this operation, 5,142 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu jammy/main amd64 libatopology2 amd64 1.2.6.1-1ubuntu1 [51.3 kB]
```

```
/sbin/ldconfig.real: /usr/local/lib/libtcm_debug.so.1 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbbind_2_5.so.3 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_adapter_level_zero.so.0 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_loader.so.0 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libhwloc.so.15 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_adapter_opencl.so.0 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtcm.so.1 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbmalloc_proxy.so.2 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbbind_2_0.so.3 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libumf.so.0 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbbind.so.3 is not a symbolic link
```

```
text=["this is introduction to nlp",'it is likely to be useful,to people',\
      'machine learning is the new electricity','R is good language']
```

```
engine=pyttsx3.init()
for i in text:
  engine.say(i)
  engine.runAndWait()
  time.sleep(5)
```

```
import pyttsx3
engine = pyttsx3.init()

rate = engine.getProperty('rate')
print(rate)
```

```
engine.setProperty('rate', 150)

volume = engine.getProperty('volume')
print(volume)
engine.setProperty('volume', 1.0)

voices = engine.getProperty('voices')
engine.setProperty('voice', voices[1].id)

engine.say("Hello World!")
engine.say('My current speaking rate is ' + str(rate))
engine.say('My current speaking volume level is ' + str(volume))
engine.runAndWait()
engine.stop()
```

```
150
1.0
```

```
!pip install goslate
```

```
Collecting goslate
  Downloading goslate-1.5.4.tar.gz (14 kB)
  Preparing metadata (setup.py) ... done
Collecting futures (from goslate)
  Downloading futures-3.0.5.tar.gz (25 kB)
  Preparing metadata (setup.py) ... done
Building wheels for collected packages: goslate, futures
  Building wheel for goslate (setup.py) ... done
  Created wheel for goslate: filename=goslate-1.5.4-py3-none-any.whl size=11579 sha256=19d99f90c790edf6e6f4edffe9371b7e32801273a9c7e
  Stored in directory: /root/.cache/pip/wheels/b6/48/7a/e7458e7a110a5525687dd17a52d3e42c157a8d22a2c4d5e840
  Building wheel for futures (setup.py) ... done
  Created wheel for futures: filename=futures-3.0.5-py3-none-any.whl size=14068 sha256=59cc1beadfdb9dc519185fb4457d329cd1d5fdcb5938
  Stored in directory: /root/.cache/pip/wheels/66/cb/37/51fe32ecb9068869196ce81111bdfe82e6ecb53c889362f81b
Successfully built goslate futures
Installing collected packages: futures, goslate
Successfully installed futures-3.0.5 goslate-1.5.4
WARNING: The following packages were previously imported in this runtime:
  [concurrent]
You must restart the runtime in order to use newly installed versions.
```

RESTART SESSION

```
text="Bonjour le monde"
```

```
import goslate
```

```
gs=goslate.Goslate()
translatedText=gs.translate(text,"en")
print(translatedText)
```

```
Hello world
```

```
!pip install translate
```

```
Collecting translate
  Downloading translate-3.6.1-py2.py3-none-any.whl.metadata (7.7 kB)
Requirement already satisfied: click in /usr/local/lib/python3.11/dist-packages (from translate) (8.1.8)
Requirement already satisfied: lxml in /usr/local/lib/python3.11/dist-packages (from translate) (5.3.1)
Requirement already satisfied: requests in /usr/local/lib/python3.11/dist-packages (from translate) (2.32.3)
Collecting libretranslatepy==2.1.1 (from translate)
  Downloading libretranslatepy-2.1.1-py3-none-any.whl.metadata (233 bytes)
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.11/dist-packages (from requests->translate) (3.4.1
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.11/dist-packages (from requests->translate) (3.10)
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.11/dist-packages (from requests->translate) (2.3.0)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.11/dist-packages (from requests->translate) (2025.1.31)
Downloading translate-3.6.1-py2.py3-none-any.whl (12 kB)
Downloading libretranslatepy-2.1.1-py3-none-any.whl (3.2 kB)
Installing collected packages: libretranslatepy, translate
Successfully installed libretranslatepy-2.1.1 translate-3.6.1
```

```
from translate import Translator
translator=Translator(to_lang="te")
translation=translator.translate("i love coding")
print(translation)
```

```
నేను కోడింగ్  ను ప్రేమిస్తున్నాను
```

```
from translate import Translator
translator=Translator(to_lang="tn")
translation=translator.translate("i love coding")
print(translation)
```

```
ke rata go kwala khoutu
```

```
from translate import Translator
translator=Translator(to_lang="ar")
translation=translator.translate("i love coding ")
print(translation)
```

أنا أحب الترميز

```
!pip install SpeechRecognition
```

```
Collecting SpeechRecognition
  Downloading SpeechRecognition-3.14.1-py3-none-any.whl.metadata (31 kB)
Requirement already satisfied: typing-extensions in /usr/local/lib/python3.11/dist-packages (from SpeechRecognition) (4.12.2)
Downloading SpeechRecognition-3.14.1-py3-none-any.whl (32.9 MB)
   ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 32.9/32.9 MB 51.5 MB/s eta 0:00:00
Installing collected packages: SpeechRecognition
Successfully installed SpeechRecognition-3.14.1
```

```
!pip install PyAudio
```

```
Collecting PyAudio
  Using cached PyAudio-0.2.14.tar.gz (47 kB)
  Installing build dependencies ... done
  Getting requirements to build wheel ... done
  Preparing metadata (pyproject.toml) ... done
Building wheels for collected packages: PyAudio
  Building wheel for PyAudio (pyproject.toml) ... done
  Created wheel for PyAudio: filename=PyAudio-0.2.14-cp311-cp311-linux_x86_64.whl size=67395 sha256=363a1a5d2b1cd842b5cfb422359c9c31
  Stored in directory: /root/.cache/pip/wheels/80/b1/c1/67e4ef443de2665d86031d4760508094eab5de37d5d64d9c27
Successfully built PyAudio
Installing collected packages: PyAudio
Successfully installed PyAudio-0.2.14
```

Generated code may be subject to a license | 777irug/translator

```
import speech_recognition as sr
```

Generated code may be subject to a license | mishranilesh012/Natural_Language_Processing_Techniques | abhijitvc/Python-Projects

```
!sudo apt-get install portaudio19-dev python3
r=sr.Recognizer()
with sr.Microphone() as source:
  print("say something")
  audio=r.listen(source)
```

```
try:
  print("i think you:"+r.recognize_google(audio))
except:
  pass
```

```
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
portaudio19-dev is already the newest version (19.6.0-1.1).
python3 is already the newest version (3.10.6-1~22.04.1).
0 upgraded, 0 newly installed, 0 to remove and 26 not upgraded.
---------------------------------------------------------------------------
OSError                                   Traceback (most recent call last)
<ipython-input-21-65ffb79f477d> in <cell line: 0>()
      1 get_ipython().system('sudo apt-get install portaudio19-dev python3')
      2 r=sr.Recognizer()
----> 3 with sr.Microphone() as source:
      4   print("say something")
      5   audio=r.listen(source)

                                  1 frames
/usr/local/lib/python3.11/dist-packages/pyaudio/__init__.py in get_default_input_device_info(self)
    810         :rtype: dict
    811         """
--> 812         device_index = pa.get_default_input_device()
    813         return self.get_device_info_by_index(device_index)
    814

OSError: No Default Input Device Available
```

Next steps: Explain error

```
Start coding or generate with AI.
```