

```
!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-pa
Collecting click<8.2,>=7.1 (from gTTS)
  Downloading click-8.1.8-py3-none-any.whl.metadata (2.3 kB)
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.11/
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.11/dist-package
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.11/dist-p
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.11/dist-p
Downloading gTTS-2.5.4-py3-none-any.whl (29 kB)
Downloading click-8.1.8-py3-none-any.whl (98 kB)
    _____ 98.2/98.2 kB 7.4 MB/s eta 0:00:00
Installing collected packages: click, gTTS
  Attempting uninstall: click
    Found existing installation: click 8.2.0
    Uninstalling click-8.2.0:
      Successfully uninstalled click-8.2.0
  Successfully installed click-8.1.8 gTTS-2.5.4

```

```

from gtts import gTTS
from IPython.display import Audio

```

```
a = gTTS(input("Enter any text:"))
```

```
Enter any text:hello ,how are you
```

```
a.save("speech.mp3")
```

```
Audio("speech.mp3")
```

```
0:01 / 0:01
```

```
!pip install SpeechRecognition pydub
```

```

Collecting SpeechRecognition
  Downloading speechrecognition-3.14.3-py3-none-any.whl.metadata (30 kB)
Collecting pydub
  Downloading pydub-0.25.1-py2.py3-none-any.whl.metadata (1.4 kB)
Requirement already satisfied: typing-extensions in /usr/local/lib/python3.11/dist-pa
Downloading speechrecognition-3.14.3-py3-none-any.whl (32.9 MB)
    _____ 32.9/32.9 MB 37.2 MB/s eta 0:00:00
Downloading pydub-0.25.1-py2.py3-none-any.whl (32 kB)
Installing collected packages: pydub, SpeechRecognition
Successfully installed SpeechRecognition-3.14.3 pydub-0.25.1

```

```
from pydub import AudioSegment
mp3_file="/content/mp3.mp3"
wav_file="/content/wav.wav"
audio=AudioSegment.from_mp3(mp3_file)
audio.export(wav_file,format="wav")
```

↳ <_io.BufferedRandom name='/content/wav.wav'>

```
import speech_recognition as sr
reco = sr.Recognizer()
with sr.AudioFile("/content/wav.wav") as source:
    audio_data = reco.record(source)
    print("Transcript: ",reco.recognize_google(audio_data))
```

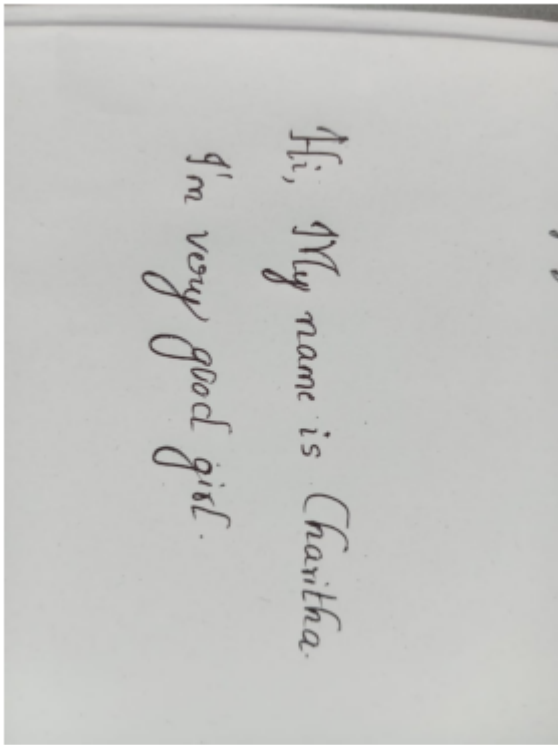
↳ Transcript: ham charita I love chicken biryani prepared by my mom

```
!pip install pytesseract pillow
```

↳ Collecting pytesseract
 Downloading pytesseract-0.3.13-py3-none-any.whl.metadata (11 kB)
 Requirement already satisfied: pillow in /usr/local/lib/python3.11/dist-packages (11.
 Requirement already satisfied: packaging>=21.3 in /usr/local/lib/python3.11/dist-pack
 Downloading pytesseract-0.3.13-py3-none-any.whl (14 kB)
 Installing collected packages: pytesseract
 Successfully installed pytesseract-0.3.13

```
from PIL import Image
import pytesseract
import matplotlib.pyplot as plt
ip = "/content/handwriting.jpeg"
plt.imshow(Image.open(ip))
plt.axis('off')
```

```
(np.float64(-0.5), np.float64(962.5), np.float64(1279.5), np.float64(-0.5))
```

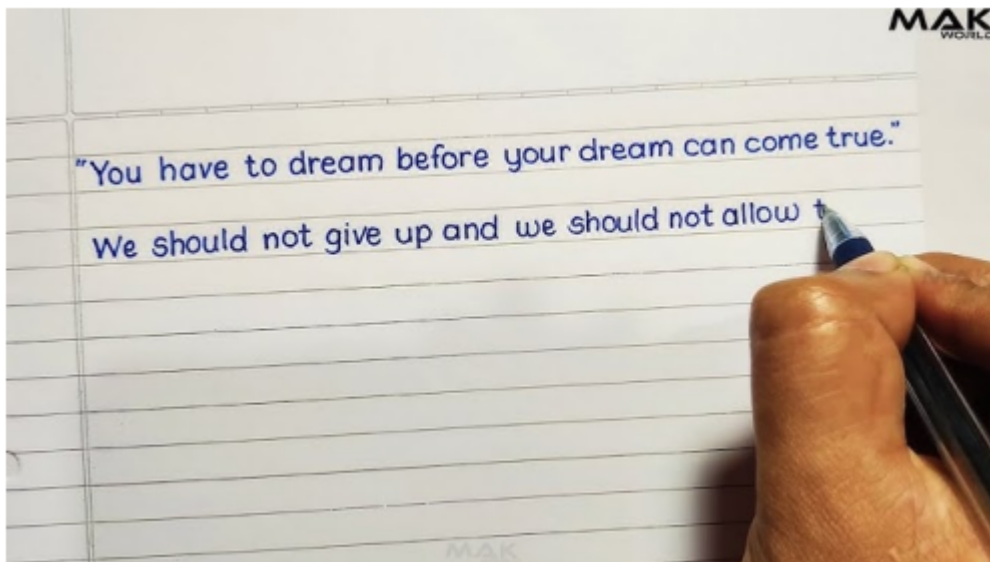


```
img = Image.open(ip)
text = pytesseract.image_to_string(img)
print("Extracted text:",text)
```

```
↳ Extracted text: Wi, My nome is Chantha
ti ey je git
```

```
from PIL import Image
import pytesseract
import matplotlib.pyplot as plt
ip = "/content/hand.jpg"
plt.imshow(Image.open(ip))
plt.axis('off')
```

➞ (np.float64(-0.5), np.float64(685.5), np.float64(385.5), np.float64(-0.5))



```
img = Image.open(ip)
text = pytesseract.image_to_string(img)
print("Extracted text:",text)
```

➞ Extracted text:

"You have to dream before your dream can come true."

jp and we should not allow

"We should not give ul

```
a.save("hand.jpg")
```

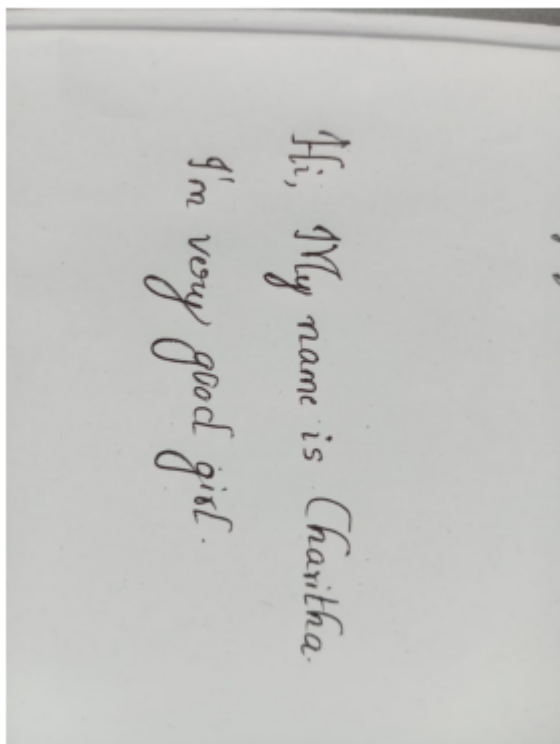
```
Audio("/content/hand.mp3")
```



0:00 / 0:07

```
from PIL import Image
import pytesseract
import matplotlib.pyplot as plt
ip = "/content/handwriting.jpeg"
plt.imshow(Image.open(ip))
plt.axis('off')
```

```
(np.float64(-0.5), np.float64(962.5), np.float64(1279.5), np.float64(-0.5))
```



```
img = Image.open(ip)
text = pytesseract.image_to_string(img)
print("Extracted text:",text)
```

```
Extracted text: Hi, My name is Chanthia
I'm very good girl
```

```
from gtts import gTTS
from IPython.display import Audio
tts = gTTS(text)
tts.save("handwriting.mp3")
```

```
display(Audio("handwriting.mp3", autoplay=True))
```

```
0:03 / 0:03
```

```
!pip install googletrans==4.0.0-rc1
```

```
Requirement already satisfied: googletrans==4.0.0-rc1 in /usr/local/lib/python3.11/dist-packages (from googletrans==4.0.0-rc1)
Requirement already satisfied: httpx==0.13.3 in /usr/local/lib/python3.11/dist-packages (from googletrans==4.0.0-rc1)
Requirement already satisfied: certifi in /usr/local/lib/python3.11/dist-packages (from httpx==0.13.3)
Requirement already satisfied: hstspreload in /usr/local/lib/python3.11/dist-packages (from httpx==0.13.3)
Requirement already satisfied: sniffio in /usr/local/lib/python3.11/dist-packages (from httpx==0.13.3)
Requirement already satisfied: chardet==3.* in /usr/local/lib/python3.11/dist-packages (from googletrans==4.0.0-rc1)
Requirement already satisfied: idna==2.* in /usr/local/lib/python3.11/dist-packages (from httpx==0.13.3)
Requirement already satisfied: rfc3986<2,>=1.3 in /usr/local/lib/python3.11/dist-packages (from httpx==0.13.3)
```

```

irement already satisfied: httpcore==0.9.* in /usr/local/lib/python3.11/dist-packages
irement already satisfied: h11<0.10,>=0.8 in /usr/local/lib/python3.11/dist-packages
irement already satisfied: h2==3.* in /usr/local/lib/python3.11/dist-packages (from ht
irement already satisfied: hyperframe<6,>=5.2.0 in /usr/local/lib/python3.11/dist-pac
irement already satisfied: hpack<4,>=3.0 in /usr/local/lib/python3.11/dist-packages (

```

```

from googletrans import Translator
t = Translator()
text = input("Enter any text: ")
translated = t.translate(text,dest='ko')
print("Translated text:",translated.text)

```

Enter any text: hello
Translated text: 안녕하세요

```

from pydub import AudioSegment
mp3_file="/content/charithamp3.mp3"
wav_file="/content/charithawav.wav"
audio=AudioSegment.from_mp3(mp3_file)
audio.export(wav_file,format="wav")

```

<_io.BufferedRandom name='/content/charithawav.wav'>

```

import speech_recognition as sr
reco = sr.Recognizer()
with sr.AudioFile("/content/charithawav.wav") as source:
    audio_data = reco.record(source)
    print("Transcript: ",reco.recognize_google(audio_data))

```

Transcript: Napier City

```

telugu_text = reco.recognize_google(audio_data, language='te-IN')
print("Telugu Transcript:", telugu_text)

```

Telugu Transcript: నా పేరు చరిత

```

from googletrans import Translator

translator = Translator()
translated = translator.translate("నా పేరు చరిత", src='te', dest='en')
print("English Translation:", translated.text)

```

English Translation: My name is Charita

```

from gtts import gTTS
from IPython.display import Audio
english_text = "My name is Charita"

```

```
speech = gTTS(text=english_text, lang='en')
speech.save("cherry.mp3")
```

```
Audio("cherry.mp3")
```



0:01 / 0:01

```
import speech_recognition as sr
recognizer = sr.Recognizer()
with sr.AudioFile("/content/voicewav.wav") as source:
    audio = recognizer.record(source)
```

```
voice_text = recognizer.recognize_google(audio)
print("You said:", voice_text)
```



You said: 2 + 3

```
expression = voice_text.lower()
expression = expression.replace("plus", "+")
expression = expression.replace("minus", "-")
expression = expression.replace("times", "*").replace("x", "*")
expression = expression.replace("into", "*")
expression = expression.replace("divided by", "/").replace("by", "/")
print("Evaluating:", expression)
try:
    result = eval(expression)
    print("Result:", result)
except:
    print("Could not evaluate the expression.")
```



Evaluating: 2 + 3
Result: 5

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