

```
!pip install gTTS
```

```
Requirement already satisfied: gTTS in /usr/local/lib/python3.11/dist-packages (2.5.4)
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) (3.4.2)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.11/dist-packages (from requests<3,>=2.27->gTTS) (2.10)
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.11/dist-packages (from requests<3,>=2.27->gTTS) (2.4.0)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.11/dist-packages (from requests<3,>=2.27->gTTS) (2025.4.26)
```

```
from gtts import gTTS
from IPython.display import Audio
```

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

```
Enter any textsdskndjknfjknfnfsdjknfskjskjsk
```

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

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

```
!pip install speechrecognition pydub
```

```
Requirement already satisfied: speechrecognition in /usr/local/lib/python3.11/dist-packages (3.14.3)
Requirement already satisfied: pydub in /usr/local/lib/python3.11/dist-packages (0.25.1)
Requirement already satisfied: typing-extensions in /usr/local/lib/python3.11/dist-packages (from speechrecognition) (4.13.2)
```

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

```
<_io.BufferedRandom name='/content/speech.wav'>
```

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

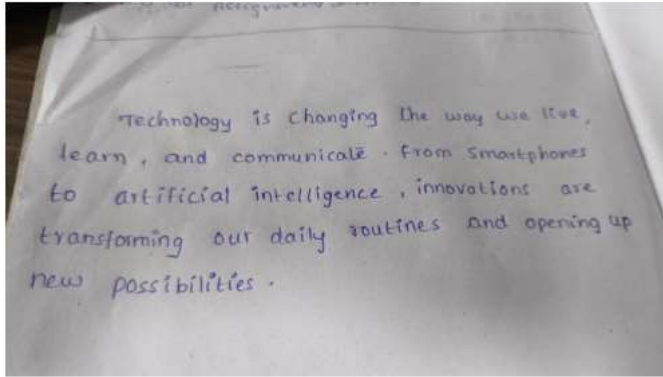
```
Transcript: SDS j k n d j k n f j k f n n f s d j k n f s k j n s k j
```

```
!pip install pytesseract pillow
```

```
Requirement already satisfied: pytesseract in /usr/local/lib/python3.11/dist-packages (0.3.13)
Requirement already satisfied: pillow in /usr/local/lib/python3.11/dist-packages (11.2.1)
Requirement already satisfied: packaging>=21.3 in /usr/local/lib/python3.11/dist-packages (from pytesseract) (24.2)
```

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

↗ (np.float64(-0.5), np.float64(1155.5), np.float64(649.5), np.float64(-0.5))



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

↗ Extracted text

Technology is changing the way we live \
learn , And Communicate + From Smartphones
to Artificial intelligence , innovations are

transforming Our daily routines as Opening Up

New Possibilities

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

↗ Enter any text

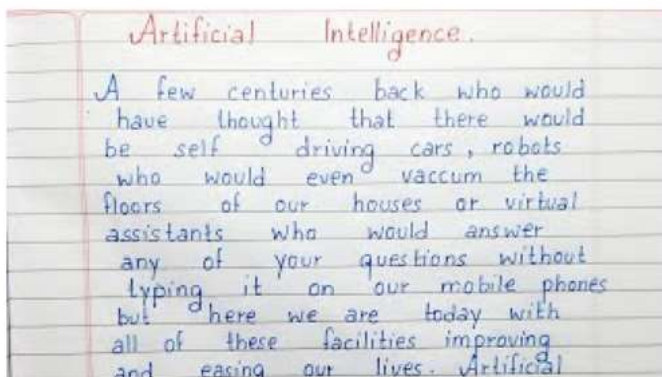
```
a.save("speech.mp3")
```

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

↗ 0:00 / 0:03

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

↗ (np.float64(-0.5), np.float64(319.5), np.float64(179.5), np.float64(-0.5))



```
img = Image.open(ip)
text = pytesseract.image_to_string(img)
```

```
print("Extracted text",text)
```

↻ Extracted text

2 Artificial Intelligence

| A few centuries back —who—would
have thought. thal —Ehere would
be sell Faring cars. abebbs
To nould even 9 vaccum —the

itsers al our houses or —virlual
assislants whe would answer

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

↻ Enter any textljk1jlkj

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

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

↻

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

↻ Requirement already satisfied: googletrans==4.0.0-rc1 in /usr/local/lib/python3.11/dist-packages (4.0.0rc1)
Requirement already satisfied: httpx==0.13.3 in /usr/local/lib/python3.11/dist-packages (from googletrans==4.0.0-rc1) (0.13.3)
Requirement already satisfied: certifi in /usr/local/lib/python3.11/dist-packages (from httpx==0.13.3->googletrans==4.0.0-rc1) (2025.4.2)
Requirement already satisfied: hstspreload in /usr/local/lib/python3.11/dist-packages (from httpx==0.13.3->googletrans==4.0.0-rc1) (2025.4.2)
Requirement already satisfied: sniffio in /usr/local/lib/python3.11/dist-packages (from httpx==0.13.3->googletrans==4.0.0-rc1) (1.3.1)
Requirement already satisfied: chardet==3.* in /usr/local/lib/python3.11/dist-packages (from httpx==0.13.3->googletrans==4.0.0-rc1) (3.0.0)
Requirement already satisfied: idna==2.* in /usr/local/lib/python3.11/dist-packages (from httpx==0.13.3->googletrans==4.0.0-rc1) (2.10)
Requirement already satisfied: rfc3986<2,>=1.3 in /usr/local/lib/python3.11/dist-packages (from httpx==0.13.3->googletrans==4.0.0-rc1) (1.3.0)
Requirement already satisfied: httpcore==0.9.* in /usr/local/lib/python3.11/dist-packages (from httpx==0.13.3->googletrans==4.0.0-rc1) (0.9.2)
Requirement already satisfied: h11<0.10,>=0.8 in /usr/local/lib/python3.11/dist-packages (from httpcore==0.9.*->httpx==0.13.3->googletrans==4.0.0-rc1) (0.14.0)
Requirement already satisfied: h2==3.* in /usr/local/lib/python3.11/dist-packages (from httpcore==0.9.*->httpx==0.13.3->googletrans==4.0.0-rc1) (3.2.0)
Requirement already satisfied: hyperframe<6,>=5.2.0 in /usr/local/lib/python3.11/dist-packages (from h2==3.*->httpcore==0.9.*->httpx==0.13.3->googletrans==4.0.0-rc1) (5.2.0)
Requirement already satisfied: hpack<4,>=3.0 in /usr/local/lib/python3.11/dist-packages (from h2==3.*->httpcore==0.9.*->httpx==0.13.3->googletrans==4.0.0-rc1) (3.0.0)

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

↻ Requirement already satisfied: googletrans==4.0.0-rc1 in /usr/local/lib/python3.11/dist-packages (4.0.0rc1)
Requirement already satisfied: httpx==0.13.3 in /usr/local/lib/python3.11/dist-packages (from googletrans==4.0.0-rc1) (0.13.3)
Requirement already satisfied: certifi in /usr/local/lib/python3.11/dist-packages (from httpx==0.13.3->googletrans==4.0.0-rc1) (2025.4.2)
Requirement already satisfied: hstspreload in /usr/local/lib/python3.11/dist-packages (from httpx==0.13.3->googletrans==4.0.0-rc1) (2025.4.2)
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Requirement already satisfied: hpack<4,>=3.0 in /usr/local/lib/python3.11/dist-packages (from h2==3.*->httpcore==0.9.*->httpx==0.13.3->googletrans==4.0.0-rc1) (3.0.0)

```
from googletrans import Translator  
t = Translator()  
text = input("Enter a text")  
translated = t.translate(text,src='en',dest='sans')  
print("Translated text:" ,translated.text)
```

Enter a text nikhil sumanth kireety
Translated text: निखिल सुमंथ किरीती