TASKS:

1. **Speech to text module**

**-Learning it and using it.**

**-https://cloud.google.com/speech-to-text/docs/languages – Google API list for different langugaes**

**Module Import**

-pip install SpeechRecognition

If it doesn’t runs and shows the error of Pyaudio then:

-pip install pipwin

-pipwin install pyaudio

**SOURCE CODE:**

import speech\_recognition as sr

r = sr.Recognizer()

with sr.Microphone() as source:

print("Speak ANything")

audio = r.listen(source)

try:

**text** = r.recognize\_google(audio, language = "en-US")

print("You said: {}".format(text))

except:

print("Sorry")

We will be using the the bold “text” or will create a new variable for format purpose

**2. Translation module**

**-learning & implementation**

**-using it with button for listening**

**https://techvidvan.com/tutorials/python-language-translator/**

**Modules:**

Pip install googletrans

<https://www.labnol.org/code/19899-google-translate-languages> - languages code

also googletrans.LANGUAGES will give the list

**SOURCE CODE:**

#importing module

from googletrans import Translator

#one variable to use library

translator = Translator()

#That's where the onverted text will be written

sentence = str(input("Say:"))

translator = Translator()

#trasnlated here here "src" keyword not needed,auto detection hai

translated = translator.translate(sentence, dest="en")

print(translated.text)

**3. GUI building and designing**

**- writing box ...... translate**

**- speech...write...and then trasnlate**

**4. SQL connection**

**- Connection with the**

**5. Text to speech and speech to text**

**- finding module and implementing it**

**-https://www.linkedin.com/pulse/easy-multilingual-speech-text-python-using-google-apis-lombardelli?articleId=6523583001295679488**

**Module:**

pip install pyttsx3

**SOURCE CODE:**

import pyttsx3

text\_speech = pyttsx3.init()

answer = input("Enter the text:")

text\_speech.say(answer)

text\_speech.runAndWait()