#### **Practical No 1**

#### Aim:

- a. Install NLTK
- b. Convert the given text to speech
- c. Convert audio file Speech to Text.

## Program:

```
>pip install gtts
```

>pip install nltk

>pip install SpeechRecognition pydub

#### b. Convert the given text to speech

#### **Steps:**

- 1. create file.txt in respective folder.
- 2. Enter some message in file.txt.
- 3. Save texttospeech.py file at same location.

## **Texttospeech.py**

```
from gtts import gTTS

import os

f = open('1.txt')

x=f.read()

langauge='en'

audio=gTTS(text=x,lang=langauge)

audio.save("wishes.wav")

os.system("wishes.wav")

print("program executed succesfully.")
```

## **Output:**

```
File Edit Shell 3.9.2 — — X

File Edit Shell Debug Options Window Help

Python 3.9.2 (tags/v3.9.2:1a79785, Feb 19 2021, 13:44:55) [MSC v.1928 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>>

= RESTART: C:/Users/manap/AppData/Local/Programs/Python/Python39/texttospeech.py

program executed successfully.

>>> |

Ln:6 Col:4
```



## C. Convert audio file Speech to Text.

```
import speech_recognition as sr
filename = "Greetings.wav"
# initialize the recognizer
r = sr.Recognizer()
# open the file
with sr.AudioFile(filename) as source:
    # listen for the data (load audio to memory)
    audio_data = r.record(source)
    # recognize (convert from speech to text)
    text = r.recognize_google(audio_data)
    print(text)
```

# Output:



