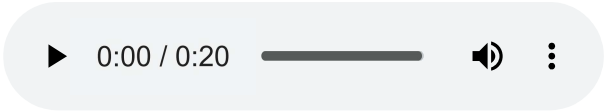
In [1]:
```
pip install gtts
```

```
Requirement already satisfied: gtts in d:\mustafa\ananaconda\lib\site-packages (2.5.4)Note: you may need to restart t
he kernel to use updated packages.

Requirement already satisfied: requests<3,>=2.27 in d:\mustafa\ananaconda\lib\site-packages (from gtts) (2.32.3)
Requirement already satisfied: click<8.2,>=7.1 in d:\mustafa\ananaconda\lib\site-packages (from gtts) (8.1.7)
Requirement already satisfied: colorama in d:\mustafa\ananaconda\lib\site-packages (from click<8.2,>=7.1->gtts) (0.4.
6)
Requirement already satisfied: charset-normalizer<4,>=2 in d:\mustafa\ananaconda\lib\site-packages (from requests<3,>
=2.27->gtts) (3.3.2)
Requirement already satisfied: idna<4,>=2.5 in d:\mustafa\ananaconda\lib\site-packages (from requests<3,>=2.27->gtts)
(3.7)
Requirement already satisfied: urllib3<3,>=1.21.1 in d:\mustafa\ananaconda\lib\site-packages (from requests<3,>=2.27-
>gtts) (2.2.3)
Requirement already satisfied: certifi>=2017.4.17 in d:\mustafa\ananaconda\lib\site-packages (from requests<3,>=2.27-
>gtts) (2024.8.30)
```

In [3]:
```
from gtts import gTTS
from IPython.display import Audio
import os

# Create the text-to-speech object
text_to_speech = gTTS('''welcome to naresh technology data science programme under prakash senapati guidance.
                         classes will help practicle exposure to boost up technical skill
                         and increase learning for coding skills. we conduct this programme for
                         both non-technical and technical learners. Thank you.''',lang='hi',tld='com')

# Save the audio file
text_to_speech.save('text_to_speech_gtts.wav')
sound_file = 'text_to_speech_gtts.wav'

# Play the audio file with a sample rate parameter
# Common sample rates are 16000, 22050, 44100, or 48000 Hz
# Using 24000 as a common rate for speech
Audio(sound_file, rate=24000, autoplay=False)

# Alternative approach: let IPython figure out the rate from the file
# Audio(filename=sound_file, autoplay=False)
```

Out[3]:



Text to Speech conversion using pyttsx3

Changing the gender using pyttsx3

In [6]:
```
pip install pyttsx3
```

```
Collecting pyttsx3
  Using cached pyttsx3-2.98-py3-none-any.whl.metadata (3.8 kB)
Collecting comtypes (from pyttsx3)
  Downloading comtypes-1.4.11-py3-none-any.whl.metadata (7.2 kB)
Collecting pypiwin32 (from pyttsx3)
  Using cached pypiwin32-223-py3-none-any.whl.metadata (236 bytes)
Requirement already satisfied: pywin32 in d:\mustafa\ananaconda\lib\site-packages (from pyttsx3) (305.1)
Using cached pyttsx3-2.98-py3-none-any.whl (34 kB)
Downloading comtypes-1.4.11-py3-none-any.whl (246 kB)
Using cached pypiwin32-223-py3-none-any.whl (1.7 kB)
Installing collected packages: pypiwin32, comtypes, pyttsx3
Successfully installed comtypes-1.4.11 pypiwin32-223 pyttsx3-2.98
Note: you may need to restart the kernel to use updated packages.
```

In [8]:
```
import pyttsx3
from IPython.display import Audio

text = '''welcome to naresh technology datascience programme under prakash senapati guidance.
        training will help practicle exposure to boost up technical skill
        and increase learning for coding skills.
        we conduct this programme for both non-technical & technical learners. Thank you.'''

audio = pyttsx3.init()
audio.setProperty('rate',150)
audio.setProperty('volume', 0.8)

# Change the voices
voice = audio.getProperty('voices')

# 0 for male and 1 for female
```

```
#audio.setProperty('voice', voice[0].id) # for male voice
audio.setProperty('voice', voice[1].id) # for female voice

# test-to speech conversion
audio.say(text)

#save the audio file
#audio.save_to_file(text, 'text_male_Voice.mp3')
audio.save_to_file(text, 'text_female_Voice.mp3')

audio.runAndWait()
```

In [ ]: