## gTTS (Google Text-to-Speech)Author: Muzaffar Ali

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## Program 1: gTTS (Google Text-to-Speech) - Version 1

Purpose: This program demonstrates the use of the gTTS (Google Text-to-Speech) module to convert text into spoken audio.

### Requirements

- gTTS (Google Text-to-Speech): This is a module and class that interfaces with Google's Text-to-Speech API. It converts text into spoken audio.

### How It Works

1. Import the gTTS (Google Text-to-Speech) class from the gtts module.  
2. Create a gTTS object with the specified text and default parameters.  
3. Save the speech audio to a file named "intro.mp3".

### Code

```python  
# Import the gTTS (Google Text-to-Speech) class from the gtts module  
from gtts import gTTS  
  
# Create a gTTS object with the specified text and default parameters  
tts = gTTS('Hello My name is Muzaffar Ali, Im from Pakistan')  
  
# Save the speech audio to a file named "intro.mp3"  
tts.save("intro.mp3")  
```

## Program 2: gTTS (Google Text-to-Speech) - Version 2

Purpose: This program demonstrates the use of the gTTS (Google Text-to-Speech) module to convert user-inputted text into spoken audio.

### Requirements

- gTTS (Google Text-to-Speech): This is a module and class that interfaces with Google's Text-to-Speech API. It converts text into spoken audio.

### How It Works

1. Import the gTTS (Google Text-to-Speech) class from the gtts module.  
2. Prompt the user to input their message and store it in the variable 'message'.  
3. Create a gTTS object with the user-provided text.  
4. Save the speech audio to a file named "intro.mp3".

### Code

```python  
# Import the gTTS (Google Text-to-Speech) class from the gtts module  
from gtts import gTTS  
  
# Prompt the user to input their message and store it in the variable 'message'  
message = input("Please input your message: ")  
  
# Create a gTTS object with the user-provided text  
tts = gTTS(message)  
  
# Save the speech audio to a file named "intro.mp3"  
tts.save("intro.mp3")  
```

## Program 3: gTTS (Google Text-to-Speech) - Version 3

Purpose: This program demonstrates the use of the gTTS (Google Text-to-Speech) module to convert text from a file into spoken audio and play the audio file.

### Requirements

- gTTS (Google Text-to-Speech): This is a module and class that interfaces with Google's Text-to-Speech API. It converts text into spoken audio.  
- os: This module provides a way to use operating system-dependent functionality like reading or writing to the file system.

### How It Works

1. Import the gTTS (Google Text-to-Speech) class from the gtts module and the os module.  
2. Open the file "intro.txt" in read mode and read its contents.  
3. Create a gTTS object with the text from the file.  
4. Save the speech audio to a file named "ali.mp3".  
5. Play the saved MP3 file using os.system.  
6. Print the contents of the file to the console.

### Code

```python  
# Import the gTTS (Google Text-to-Speech) class from the gtts module and the os module  
from gtts import gTTS  
import os  
  
# Open the file "intro.txt" in read mode and read its contents  
file = open("intro.txt", "r").read()  
  
# Create a gTTS object with the text from the file  
# lang="en" specifies the language as English  
# slow=False specifies that the speech should be at normal speed  
speech = gTTS(text=file, lang="en", slow=False)  
  
# Save the speech audio to a file named "ali.mp3"  
speech.save("ali.mp3")  
  
# Play the saved MP3 file  
os.system("ali.mp3")  
  
# Print the contents of the file to the console  
print(file)  
```