

## 1 .a. Live Speech to Text Conversion

```
In [1]: ! pip install SpeechRecognition
```

Requirement already satisfied: SpeechRecognition in d:\users\dell\anaconda3\lib\site-packages (3.8.1)

```
In [2]: ! pip install PyAudio
```

Requirement already satisfied: PyAudio in d:\users\dell\anaconda3\lib\site-packages (0.2.11)

```
In [3]: import speech_recognition as sr
```

```
In [4]: r=sr.Recognizer()
```

```
In [5]: with sr.Microphone() as source:
        print("SAY SOMETHING")
        audio=r.listen(source)
        print("TIME OVER ,THANKS")
    try:
        print("TEXT"+r.recognize_google(audio));
    except:
        pass;
```

SAY SOMETHING  
TIME OVER ,THANKS  
TEXThello Pradeep

## 1.b. Text to Speech Conversion

```
In [6]: ! pip install install gTTS
```

```
Collecting install
  Using cached install-1.3.3-py3-none-any.whl (3.1 kB)
Collecting gTTS
  Using cached gTTS-2.1.1-py3-none-any.whl (25 kB)
Processing c:\users\dell\appdata\local\pip\cache\wheels\c1\78\25\81270af5521d88ea8db7da5d4f64872673976eb9692bcb0c13\gtts_token-1.1.3-py3-none-any.whl
Requirement already satisfied: click in d:\users\dell\anaconda3\lib\site-packages (from gTTS) (7.0)
Requirement already satisfied: beautifulsoup4 in d:\users\dell\anaconda3\lib\site-packages (from gTTS) (4.8.2)
Requirement already satisfied: six in d:\users\dell\anaconda3\lib\site-packages (from gTTS) (1.14.0)
Requirement already satisfied: requests in d:\users\dell\anaconda3\lib\site-packages (from gTTS) (2.22.0)
Requirement already satisfied: soupsieve>=1.2 in d:\users\dell\anaconda3\lib\site-packages (from beautifulsoup4->gTTS) (1.9.5)
Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1 in d:\users\dell\anaconda3\lib\site-packages (from requests->gTTS) (1.25.8)
Requirement already satisfied: idna<2.9,>=2.5 in d:\users\dell\anaconda3\lib\site-packages (from requests->gTTS) (2.8)
Requirement already satisfied: certifi>=2017.4.17 in d:\users\dell\anaconda3\lib\site-packages (from requests->gTTS) (2019.11.28)
Requirement already satisfied: chardet<3.1.0,>=3.0.2 in d:\users\dell\anaconda3\lib\site-packages (from requests->gTTS) (3.0.4)
Installing collected packages: install, gtts-token, gTTS
Successfully installed gTTS-2.1.1 gtts-token-1.1.3 install-1.3.3
```

```
In [7]: from gtts import gTTS
```

```
In [8]: text="Just A Rather Very Intelligent System (J.A.R.V.I.S.) was originally Tony
Starks natural-language user interface computer system, named after Edwin Jarvis, the butler who worked Howard Stark. Over time, he was upgraded into an artificially intelligent system, tasked running business to Stark Industries also to Tony Starks Mansion , Stark Tower. After creating the Mark II armor, Stark uploaded J.A.R.V.I.S. into his of the Iron Man Armors, alao allowing him to interact to the other Avengers, giving them valuable information during combat. During the Ultron Offensive, J.A.R.V.I.S. was destroyed by Ultron, although his remaining programming codes unknowingly continued to thwart Ultrons plans of gaining access to nuclear missiles. His remains were found by Stark, who uploaded them into a synthetic body made of vibranium , conjunction joined Ultrons personality an Infinity Stone, an entirely new being was made: Vision. J.A.R.V.I.S. duties were then taken over by F.R.I.D.A.Y."
```

```
In [9]: language='en'
```

```
In [10]: myob=gTTS(text=text,lang=language,slow=False)
```

```
In [11]: myob.save("Jarvis.mp3")
```

```
In [ ]:
```