TALK_BOT IMPROVISED

```python
# -*- coding: utf-8 -*-
"""
Created on Sat May 29 15:36:58 2021

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"""
'''
!pip install SpeechRecognition
!pip install pipwin
!pipwin install PyAudio
!pip install pyttsx3
!pip install chatterbot==0.8.6
'''
```

Importing Packages

```python
import speech_recognition as sr
import pyttsx3
from chatterbot import ChatBot
from chatterbot.trainers import ChatterBotCorpusTrainer
import time
```

Creating Instance

```python
r = sr.Recognizer()
mic = sr.Microphone()
engine = pyttsx3.init()
bot = ChatBot('radical')
```

Setting the Trainer and Training the model

```python
bot.set_trainer(ChatterBotCorpusTrainer)

bot.train('chatterbot.corpus.english')


# converting text to speech and reponding


def response(reply):

    print('System is speaking ........ ')

    engine.say(reply)

    engine.runAndWait()




# Recognising the audio




time.sleep(1)

while(1):

    with mic as source:

        print('you are speaking........ ')

        r.adjust_for_ambient_noise(source)

        try:

            audio_data = r.listen(source,timeout=5,phrase_time_limit=5)

        except Exception as e:

            print(e)

        print("done listening........")

        try:

            message = r.recognize_google(audio_data)

            if ((message == 'Bye') or (message == 'ok bye see you later')):

                reply = 'nice talking to you see you later'

                response(reply)

                break
```

```python
        else:
            reply = bot.get_response(message)
            response(reply)
    except Exception as e:
        print(e)
```