```
import speech recognition as sr
import pyaudio
\textbf{from} \ \texttt{detoxify} \ \textbf{import} \ \texttt{Detoxify}
import pandas as pd
from gtts import gTTS
from textblob import TextBlob
from deep translator import GoogleTranslator
\textbf{from} \ \ \text{vaderSentiment.vaderSentiment} \ \ \textbf{import} \ \ \text{SentimentIntensityAnalyzer}
from googletrans import Translator
from gtts import gTTS
import pyttsx3
a=Detoxify('multilingual')
t=Translator()
r = sr.Recognizer()
SELECT YOUR CHOICE WHETHER YOU WANT TO CONVERT TEXT TO SPEECH OR SPEECH TO TEXT:
**********
engine = pyttsx3.init()
voices = engine.getProperty('voices')
engine.setProperty('voice', voices[0].id)
engine.say("SELECT YOUR CHOICE WHETHER YOU WANT TO CONVERT TEXT TO SPEECH OR SPEECH TO TEXT")
engine.runAndWait()
for choice in ["1. Text to speech", "2. Speech to text","3.Exit"]:
   print(choice)
select choice=int(input("Enter the number>>"))
if select choice==2:
   engine = pyttsx3.init()
   voices = engine.getProperty('voices')
   engine.setProperty('voice', voices[0].id)
   engine.say("YOU HAVE SELECTED OPTION 2 THAT IS SPEECH TO TEXT")
    engine.runAndWait()
    with sr.Microphone() as source:
        engine = pyttsx3.init()
       voices = engine.getProperty('voices')
       engine.setProperty('voice', voices[0].id)
       engine.say("PLEASE START YOUR SPEECH AFTER 2 SECONDS")
       engine.runAndWait()
       print("Pls Start your Speech!")
       audio = r.listen(source,timeout=4,phrase_time_limit=100)
    engine = pyttsx3.init()
    voices = engine.getProperty('voices')
    engine.setProperty('voice', voices[0].id)
    engine.say("SELECT THE LANGUAGE")
    engine.runAndWait()
    for lang in ["1. Hindi", "2. English", "3.Exit"]:
       print(lang)
    select_lang=int(input("Enter the number>>"))
    if select lang==1:
       engine = pyttsx3.init()
       voices = engine.getProperty('voices')
       engine.setProperty('voice', voices[0].id)
       engine.say("YOU HAVE SELECTED HINDI LANGUAGE ")
        engine.runAndWait()
           q=r.recognize google(audio,language='en-US')
           translated text = GoogleTranslator(target='hi').translate(q)
           print("Text:"+GoogleTranslator(target='hi').translate(q))
           analyzer = SentimentIntensityAnalyzer()
           sentiment dict = analyzer.polarity scores(GoogleTranslator(target='en').translate(q))
           print(sentiment dict)
           if sentiment_dict['compound'] >= 0.05 :
               print("It is a Positive Sentence",'\U0001f600')
            elif sentiment_dict['compound'] <= - 0.05 :</pre>
               print("It is a Negative Sentence",'\U0001f608')
            else :
               print("It is a Neutral Sentence",'\U0001f610')
        except:
           pass
    elif select lang==2:
       engine = pyttsx3.init()
       voices = engine.getProperty('voices')
       engine.setProperty('voice', voices[0].id)
       engine.say("YOU HAVE SELECTED ENGLISH LANGUAGE")
       engine.runAndWait()
        try:
           q=r.recognize_google(audio, language = 'hi-IN')
           analyzer = SentimentIntensityAnalyzer()
           sentiment_dict = analyzer.polarity_scores(GoogleTranslator(target='en').translate(q))
           print("Text:"+GoogleTranslator(target='en').translate(q))
           print(sentiment dict)
           if sentiment dict['compound'] >= 0.05 :
               print("It is a Positive Sentence",'\U0001f600')
            elif sentiment dict['compound'] <= - 0.05 :</pre>
               print("It is a Negative Sentence", '\U0001f608')
           else :
               print("It is a Neutral Sentence",'\U0001f610')
        except:
           pass
    elif select_lang==3:
       print("Have a Good Day")
        engine = pyttsx3.init()
       voices = engine.getProperty('voices')
       engine.setProperty('voice', voices[0].id)
       engine.say("HAVE A GOOD DAY")
       engine.runAndWait()
        #print("Have a Good Day")
    print(a.predict(q))
if select_choice==1:
    engine = pyttsx3.init()
    voices = engine.getProperty('voices')
    engine.setProperty('voice', voices[0].id)
    engine.say("YOU HAVE SELECTED OPTION 1 THAT IS TEXT TO SPEECH")
    engine.runAndWait()
    def convert_to_audio(text):
       engine = pyttsx3.init()
       voices = engine.getProperty('voices')
       engine.setProperty('voice', voices[0].id)
       engine.say("PLEASE ENTER THE PATH OF THE TEXT FILE USING .T X T extension")
        engine.runAndWait()
        e=input("enter the path of text file:")
       print(e)
        f = open(e, "r", encoding="UTF-8")
       l=f.read()
        #print(r)
        r=GoogleTranslator(target='hi').translate(1)
        p=GoogleTranslator(target='en').translate(1)
        audio=gTTS(r)
       engine = pyttsx3.init()
       voices = engine.getProperty('voices')
        SELECT THE LANGUAGE YOU WANT TO CONVERT:
               ********
       engine = pyttsx3.init()
       voices = engine.getProperty('voices')
        engine.setProperty('voice', voices[0].id)
       engine.say("SELECT THE LANGUAGE IN WHICH YOU WANT TO CONVERT")
        engine.runAndWait()
       for language in ["1.HINDI", "2.ENGLISH" ,"3.EXIT" ]:
           print(language)
       select LANGUAGE=int(input("Enter the number>>"))
        if select LANGUAGE==1:
           engine = pyttsx3.init()
           voices = engine.getProperty('voices')
           engine.setProperty('voice', voices[0].id)
           engine.say("YOU HAVE SELECTED HINDI LANGUAGE")
           engine.runAndWait()
           SELECT THE VOICE IN WHICH YOU WANT TO LISTEN:
               *********
            for voice in ["1.FEMALE VOICE", "2.EXIT" ]:
               print(voice)
            select_VOICE=int(input("Enter the number>>"))
           if select_VOICE==1:
               engine = pyttsx3.init()
               voices = engine.getProperty('voices')
               engine.setProperty('voice', voices[0].id)
               engine.say("YOU HAVE SELECTED FEMALE HINDI VOICE")
               engine.runAndWait()
               try:
                   r=GoogleTranslator(target='hi').translate(l)
                   DO YOU WANT TO SAVE THIS AUDIO :
                 **********
                   engine = pyttsx3.init()
                   voices = engine.getProperty('voices')
                   engine.setProperty('voice', voices[0].id)
                   engine.say("IF YOU WANT TO SAVE THIS FILE THEN PRESS 1")
                   engine.runAndWait()
                   for save in ["1. SAVE IT", "2.Exit"]:
                       print(save)
                   select_save=int(input("Enter the number>>"))
                   if select save==1:
                       try:
                           engine = pyttsx3.init()
                           voices = engine.getProperty('voices')
                           engine.setProperty('voice', voices[0].id)
                           engine.say("GIVE THE NAME OF THE AUDIO FILE ACCORDING TO YOUR CHOICE USING .M P 3 extention")
                           engine.runAndWait()
                           a=input('give the name of the file ')
                           analyzer = SentimentIntensityAnalyzer()
                           sentiment_dict = analyzer.polarity_scores(r)
                           print(sentiment_dict)
                           audio.save(a)
                           engine = pyttsx3.init()
                           voices = engine.getProperty('voices')
                           engine.setProperty('voice', voices[0].id)
                           engine.say("YOUR AUDIO IS SAVED AT THE PATH YOU HAVE GIVEN SHORTLY!")
                           engine.runAndWait()
                       except:
                           pass
                   else:
                       print("have a good day")
                   engine.setProperty('voice', voices[1].id) #changing index changes voices but ony 0 and 1 are working here
                   engine.say(r)
                   engine.runAndWait()
                   print(a.predict(r))
                except:
                   pass
            elif select VOICE==2:
               try:
                   engine.setProperty("language", 'hi', 'voice', voices[0].id) #changing index changes voices but ony 0 and 1 are working here
                   engine.say(r)
                   engine.runAndWait()
                   print(a.predict(r))
               except:
                   pass
        elif select_LANGUAGE==2:
           engine = pyttsx3.init()
           voices = engine.getProperty('voices')
           engine.setProperty('voice', voices[1].id)
           engine.say("YOU HAVE SELECTED ENGLISH LANGUAGE")
           engine.runAndWait()
           print('''**********************
                             SELECT THE VOICE IN WHICH YOU WANT TO LISTEN:
               ********
           for voice in ["1.FEMALE VOICE", "2.MALE VOICE", "3.EXIT"]:
               print(voice)
           select_VOICE=int(input("Enter the number>>"))
           if select VOICE==1:
               engine = pyttsx3.init()
               voices = engine.getProperty('voices')
               engine.setProperty('voice', voices[1].id)
               engine.say("YOU HAVE SELECTED FEMALE ENGLISH VOICE")
               engine.runAndWait()
               try:
                   p=GoogleTranslator(target='en').translate(1)
                   print(p)
                   au=gTTS(p)
                   DO YOU WANT TO SAVE THIS AUDIO :
                 *********
                   engine = pyttsx3.init()
                   voices = engine.getProperty('voices')
                   engine.setProperty('voice', voices[0].id)
                   engine.say("IF YOU WANT TO SAVE THIS FILE THEN PRESS 1")
                   engine.runAndWait()
                   for save in ["1. SAVE IT", "2.Exit"]:
                       print(save)
                   select save=int(input("Enter the number>>"))
                   if select_save==1:
                       try:
                           engine = pyttsx3.init()
                           voices = engine.getProperty('voices')
                           engine.setProperty('voice', voices[0].id)
                           engine.say("GIVE THE NAME OF THE AUDIO FILE ACCORDING TO YOUR CHOICE USING .M P 3 extention")
                           engine.runAndWait()
                           a=input('give the name of the file ')
                           analyzer = SentimentIntensityAnalyzer()
                           sentiment dict = analyzer.polarity scores(p)
                           print(sentiment_dict)
                           au.save(a)
                           engine = pyttsx3.init()
                           voices = engine.getProperty('voices')
                           engine.setProperty('voice', voices[0].id)
                           engine.say("YOUR AUDIO IS SAVED AT THE PATH YOU HAVE GIVEN SHORTLY!")
                           engine.runAndWait()
                       except:
                           pass
                   else:
                       print("have a good day")
                   engine.setProperty('voice', voices[1].id) #changing index changes voices but ony 0 and 1 are working here
                   engine.runAndWait()
                   print(a.predict(p))
               except:
            elif select_VOICE==2:
               engine = pyttsx3.init()
               voices = engine.getProperty('voices')
               engine.setProperty('voice', voices[0].id)
               engine.say("YOU HAVE SELECTED MALE ENGLISH VOICE")
               engine.runAndWait()
               try:
                   p=GoogleTranslator(target='en').translate(1)
                   print(p)
                   auo=gTTS(p)
                   DO YOU WANT TO SAVE THIS AUDIO :
                        ***********
                   engine = pyttsx3.init()
                   voices = engine.getProperty('voices')
                   engine.setProperty('voice', voices[0].id)
                   engine.say("IF YOU WANT TO SAVE THIS FILE THEN PRESS 1")
                   engine.runAndWait()
                   for save in ["1. SAVE IT", "2.Exit"]:
                       print(save)
                   select_save=int(input("Enter the number>>"))
                   if select save==1:
                       try:
                           engine = pyttsx3.init()
                           voices = engine.getProperty('voices')
                           engine.setProperty('voice', voices[0].id)
                           engine.say("GIVE THE NAME OF THE AUDIO FILE ACCORDING TO YOUR CHOICE USING .M P 3 extention")
                           engine.runAndWait()
                           b=input('give the name of the file ')
                           analyzer = SentimentIntensityAnalyzer()
                           sentiment_dict = analyzer.polarity_scores(p)
                           print(sentiment dict)
                           engine.setProperty('voice', voices[0].id) #changing index changes voices but ony 0 and 1 are working here
                           engine.save_to_file(p,b)
                           engine.runAndWait()
                           engine = pyttsx3.init()
                           voices = engine.getProperty('voices')
                           engine.setProperty('voice', voices[0].id)
                           engine.say("YOUR AUDIO IS SAVED AT THE PATH YOU HAVE GIVEN SHORTLY!")
                           engine.runAndWait()
                       except:
                           pass
                   else:
                       print("have a good day")
                   print(a.predict(p))
               except:
                   pass
            elif select VOICE==3:
               print("HAVE A GOOD DAY")
        elif select LANGUAGE==3:
           print("HAVE A GOOD DAY")
    convert_to_audio(r)
if select_choice==3:
    engine = pyttsx3.init()
    voices = engine.getProperty('voices')
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In [

engine.setProperty('voice', voices[0].id)
engine.say("Thnks for visiting my Project")

engine.runAndWait()