```python
import pyttsx3
import sys
import speech_recognition as sr
import webbrowser
import os
from googlesearch import search
import keyboard
import platform
import time


engine = pyttsx3.init("sapi5") # Intilizes pyttsx3
voices = engine.getProperty("voices") # engine.getProperty gives us voice
samples

engine.setProperty('rate', 150) # Decrease the Speed Rate

engine.setProperty('voice', voices[1].id)  # 1 for female and 0 for male
voice (initiates microsoft voice)

def speak(audio):
    engine.say(audio) # engine.say #queues a command to speak
    engine.runAndWait() # engine.runAndWait (waits for the user input)

def take_command():
    r = sr.Recognizer()# recognizes the user input
    with sr.Microphone() as source: #uses user's microphone as input
        print("Listening...")
        r.pause_threshold = 2 #pauses after initiating
        audio = r.listen(source)#listens to user input
    try:
        print("Recognizing...")
        query = r.recognize_google(audio, language='en-in')#performs speech
recognition on audio data using google speech recognition API
        print(f"User Said: {query}\n")

    except Exception as e:
        print(e)
        print("Say That Again Please...")
        return "None"
    return query

def greet():
    speak("Hey  There...        What is your name?")#spoken by assistant
    name = take_command().lower()#repeats the take command process but lower
case the input from user
    speak("Hi " + name + " I    am    your   personal   search   engine
powered   by   google") #spoken by assistant


def searching():
    speak("So... What is it you want to look up in the internet") #spoken by
assistant
    query = take_command()
    for j in search(query):
        print(j)
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def exitormore():
    speak("You want to look up for something more... or exit?")# spoken by
assistant
    command = take_command().lower()
    if command == "exit":
        speak("OK! Bye it was nice meeting you!")# spoken by assistant
        sys.exit()#system exits the program
    elif command == "more":
        searching()

if __name__ == '__main__': #boilerplate code that protects from accidental
invoking of script

    speak("Hi My Name Is Friday")# spoken by assistant
    speak("How can i be of your service")# spoken by assistant
    while True:
        query = take_command().lower()

        if 'open youtube' in query:
            speak("opening youtube") #spoken by assistant
            if platform.system() == "Darwin":
                webbrowser.get('macosx').open("https://youtube.com")
            elif platform.system() == "Windows":
                webbrowser.get('windows-default').open("https://youtube.com")

        elif 'open google search' in query:

            greet()
            searching() #functions of google search
            exitormore()

        elif 'open github' in query:
            speak("opening github")# spoken by assistant
            if platform.system() == "Darwin":
                webbrowser.get('macosx').open("https://github.com")
            elif platform.system() == "Windows":
                webbrowser.get('windows-default').open("https://github.com")

        elif 'open teams' in query:
            speak("opening teams")# spoken by assistant
            if platform.system() == "Darwin":
                os.system("open /Applications/Teams.app")
            elif platform.system() == "Windows":
                loc = os.path.join(os.environ['USERPROFILE'],
"AppData\\Local\\Microsoft\\Teams\\current\\Teams.exe")
                os.startfile(loc)

        elif 'play spotify' in query:
            platform.system()
            speak("opening spotify")# spoken by assistant
            if platform.system() == "Darwin":# checks OS platform of user
                os.system("open /Applicati ons/Spotify.app")
            elif platform.system() == "Windows":
                loc = os.path.join(os.environ['APPDATA'],
"Spotify\\Spotify.exe")
                os.startfile(loc)
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```python
            time.sleep(1)#sleeps for 1 second
            keyboard.press_and_release('Space')#inputs a 'space'
keystroke

    elif 'open whatsapp' in query:
        speak("opening whatsapp")# spoken by assistant
        if platform.system() == "Darwin":
            os.system("open /Applications/WhatsApp.app")
        elif platform.system() == "Windows":
            loc = os.path.join(os.environ['USERPROFILE'],
"AppData\\Local\\WhatsApp\\WhatsApp.exe")#joins user environment+ location
        os.startfile(loc)#starts a file with associated app

    elif 'open music' in query:
    speak("opening music")
    if platform.system() == "Darwin":
        webbrowser.get('macosx').open("https://spotify.com")
        # opens link in default browser based on OS
    elif platform.system() == "Windows":
        webbrowser.get('windows-default').open("https://spotify.com")


    elif 'open disk c' in query:
        speak("Opening Local Disk C")# spoken by assistant
        webbrowser.get('windows-default').open("C://")

    elif 'open home' in query:
        if platform.system() == "Darwin":
            speak("Opening Home")# spoken by assistant
            webbrowser.open("/home/")
        else:
            speak("sorry only applicable in Mac OS devices ")# spoken by
assistant

    elif 'exit' or 'bye' in query:
        if query == "exit":
            print("Exit")
            speak("OK! Bye it was nice meeting you!")# spoken by
assistant
            exit(0)
        elif query == "bye":
            print("Bye")
            speak("OK! Bye it was nice meeting you!")# spoken by
assistant
            exit(0)#exits while loop
```