import speech\_recognition as sr  
import pyttsx3  
import datetime  
import webbrowser  
  
recognizer = sr.Recognizer()  
tts\_engine = pyttsx3.init()  
  
def speak(text):  
 tts\_engine.say(text)  
 tts\_engine.runAndWait()  
  
def listen():  
 with sr.Microphone() as source:  
 print("Listening...")  
 audio = recognizer.listen(source)  
 try:  
 query = recognizer.recognize\_google(audio, language='en-US')  
 print(f"You said: {query}")  
 except sr.UnknownValueError:  
 speak("Sorry, I did not understand that.")  
 return ""  
 except sr.RequestError:  
 speak("Sorry, my speech service is down.")  
 return ""  
 return query.lower()  
  
def tell\_time():  
 now = datetime.datetime.now()  
 current\_time = now.strftime("%I:%M %p")  
 speak(f"The time is {current\_time}")  
  
def tell\_date():  
 now = datetime.datetime.now()  
 current\_date = now.strftime("%B %d, %Y")  
 speak(f"Today's date is {current\_date}")  
  
def search\_web(query):  
 speak(f"Searching for {query}")  
 webbrowser.open(f"https://www.google.com/search?q={query}")  
  
def main():  
 speak("Hello, how can I assist you today?")  
 while True:  
 query = listen()  
  
 if "hello" in query:  
 speak("Hello! How can I help you?")  
 elif "time" in query:  
 tell\_time()  
 elif "date" in query:  
 tell\_date()  
 elif "search for" in query:  
 search\_query = query.replace("search for", "").strip()  
 if search\_query:  
 search\_web(search\_query)  
 else:  
 speak("What do you want me to search for?")  
 elif "stop" in query or "exit" in query or "bye" in query:  
 speak("Goodbye!")  
 break  
 else:  
 speak("I'm not sure how to help with that.")  
  
if \_\_name\_\_ == "\_\_main\_\_":  
 main()