```
pip install SpeechRecognition pyttsx3
import speech_recognition as sr
import pyttsx3
import datetime
recognizer = sr.Recognizer()
tts_engine = pyttsx3.init()
def speak(text):
"""Convert text to speech and speak it."""
tts_engine.say(text)
tts_engine.runAndWait()
def listen():
"""Listen to the user's voice and return the recognized text."""
with sr.Microphone() as source:
print("Listening...")
recognizer.adjust_for_ambient_noise(source)
audio = recognizer.listen(source)
try:
print("Recognizing...")
text = recognizer.recognize_google(audio)
print(f"You said: {text}")
return text.lower()
except sr.UnknownValueError:
speak("Sorry, I did not understand that.")
return ""
except sr.RequestError:
speak("Sorry, my speech service is down.")
return ""
def respond(text):
"""Generate responses based on the recognized text."""
if "time" in text:
```

```
current_time = datetime.datetime.now().strftime("%I:%M %p")
speak(f"The current time is {current_time}")
elif "date" in text:
current_date = datetime.datetime.now().strftime("%B %d, %Y")
speak(f"Today's date is {current_date}")
elif "your name" in text:
speak("I am your voice assistant.")
elif "exit" in text or "bye" in text:
speak("Goodbye!")
return False
else:
speak("I am not sure how to respond to that.")
return True
def main():
speak("How can I help you today?")
while True:
text = listen()
if not text:
continue
if not respond(text):
break
if __name__ == "__main__":
```

main()