

```
1  import speech_recognition as sr
2  import pyttsx3
3
4  # Initialize the speech recognizer
5  recognizer = sr.Recognizer()
6
7  # Initialize the text-to-speech engine
8  engine = pyttsx3.init()
9
10 # Function to speak out text
11 ▾ def speak(text):
12     engine.say(text)
13     engine.runAndWait()
14
15 # Function to listen for voice
    commands
16 ▾ def listen():
17 ▾     with sr.Microphone() as source:
18         print("Listening...")
19         recognizer
                .adjust_for_ambient_noise
                (source)
20         audio = recognizer.listen
                (source)
21
```

```
22 ▾         try:
23             print("Recognizing...")
24             command = recognizer
                        .recognize_google
                        (audio)
25             print("You said:", command
                    )
26             return command.lower()
27 ▾         except sr.UnknownValueError:
28             print("Sorry, I didn't
                    catch that.")
29             return ""
30 ▾         except sr.RequestError as e:
31             print("Could not request
                    results; {0}".format(e
                    ))
32             return ""
33
34 # Function to handle voice commands
35 ▾ def handle_command(command):
36 ▾     if "hello" in command:
37         speak("Hello! How can I help
                you?")
```

```
38 ▾ elif "goodbye" in command:
39     speak("Goodbye! Have a great
        day!")
40 ▾ else:
41     speak("Sorry, I'm not sure how
        to help with that.")
42
43 # Main function to run the voice
    assistant
44 ▾ def main():
45     speak("Hello! I'm your voice
        assistant. How can I help you
        ?")
46 ▾ while True:
47     command = listen()
48 ▾     if "exit" in command:
49         speak("Exiting. Goodbye!")
50         break
51     handle_command(command)
52
53 ▾ if __name__ == "__main__":
54     main()
```

A blue rectangular button with the word "Run" in white text.