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import speech_recognition as sr
recognizer = sr.Recognizer()
def listen_command():
  with sr.Microphone() as source:
    print("Listening for command...")
    recognizer.adjust_for_ambient_noise(source)
    audio = recognizer.listen(source)
  try:
    command = recognizer.recognize_google(audio).lower()
    print("You said:", command)
    return command
  except sr.UnknownValueError:
    print("Sorry, I couldn't understand that.")
    return ""
  except sr.RequestError:
    print("Could not connect to the speech service.")
    return ""
def main():
  print("Voice-controlled light system started. Say a command.")
  while True:
    command = listen_command()
    if "turn on the light" in command:
      print(" Light turned ON")
    elif "turn off the light" in command:
```

```
print(" \infty Light turned OFF")
elif "exit" in command or "stop" in command:
    print(" \infty Exiting program.")
    break

if __name__ == "__main__":
    main()
```