

E:\chat.py

```
1 class SimpleChatbot:
2     def __init__(self):
3         self.responses = {
4             "hi": "Hello!",
5             "hello": "Hi there!",
6             "how are you?": "I'm good, thank you!",
7             "what can you do?": "I can provide information and answer questions.",
8             "bye": "Goodbye! Have a nice day."
9         }
10
11     def chat(self):
12         print("Chatbot: Hi! How can I help you today?")
13         while True:
14             user_input = input("User: ").lower()
15             response = self.generate_response(user_input)
16             print("Chatbot:", response)
17             if user_input == "bye":
18                 break
19
20     def generate_response(self, user_input):
21         for key in self.responses:
22             if user_input in key:
23                 return self.responses[key]
24         return "Sorry, I don't understand that. Could you please rephrase?"
25
26 if __name__ == "__main__":
27     bot = SimpleChatbot()
28     bot.chat()
29
```