5) Simple Chatbot using NLP

Chatbot: Sorry, I don't understand.

You: bye

Chatbot: Bye for now!

```
import random
def simple chatbot():
  """A simple chatbot that responds with predefined replies."""
 print("Hello! I'm a simple chatbot. Ask me anything!")
 predefined replies = {
      "hello": ["Hi there!", "Hello!", "Hey!"],
      "how are you": [" thank you for asking!", "I'm good!", "All
good!"],
      "what's your name": ["I don't have a name.", "I am a chatbot.",
"Call me Bot!"],
      "bye": ["Goodbye!", "See you later!", "Bye for now!"]
 while True:
    user input = input("You: ").lower()
    if user input == "quit":
      print("Chatbot: Goodbye!")
      break
    matched = False
    for key in predefined replies:
     if key in user input:
        print("Chatbot:", random.choice(predefined replies[key]))
        matched = True
        break
    if not matched:
      print("Chatbot: Sorry, I don't understand.")
# Start the chatbot
simple chatbot()
Hello! I'm a simple chatbot. Ask me anything!
You: hello
Chatbot: Hey!
You: how are you
Chatbot: \, thank you for asking!
You: what's your nam
```