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```
}
return tag_dict.get(tag, wordnet.NOUN)

# Preprocess text function
def preprocess_text(text):
    tokens = nltk.word_tokenize(text)
    tokens = [word.lower() for word in tokens]
    tokens = [word for word in tokens if word.isalnum()]
    tokens = [lemmatizer.lemmatize(word, get_pos_tag(word)) for word in tokens]
    return tokens

# SimpleChatbot class
class SimpleChatbot:
    def __init__(self):
        self.responses = {
            'hello': ['Hello! How can I help you today?', 'Hi there! How can I assist you?', 'Greetings! What can I do for you?'],
            'bye': ['Goodbye! Have a great day!', 'See you later! Take care!', 'Farewell! Have a wonderful day!'],
            'how are you': ['I am just a bot, but I am functioning properly.', 'I am doing well, thank you for asking!', 'I am here to assist you!'],
            'default': ['I am sorry, I do not understand that.', 'Can you please rephrase?', 'I am not sure I follow.']
        }

    def get_response(self, user_input):
        tokens = preprocess_text(user_input)
        processed_input = ' '.join(tokens)
        for key in self.responses:
            if key in processed_input:
                return random.choice(self.responses[key])
        return random.choice(self.responses['default'])

# Initialize chatbot
chatbot = SimpleChatbot()

# Chat function
def chat():
    print("Chatbot: Hi! I am a chatbot. Type 'bye' to exit.")
    while True:
        user_input = input("You: ")
        if 'bye' in user_input.lower():
            print("Chatbot: Goodbye! Have a great day!")
            break
        response = chatbot.get_response(user_input)
        print(f"Chatbot: {response}")
```

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