Basic Chatbot

Task 3:

.   **Source code:**

```python
import nltk
from nltk.chat.util import Chat, reflections

nltk.download('punkt')

pairs = [
    [
        r"my name is (.*)",
        ["Hello %1, How are you today?",]
    ],
    [
        r"hi|hey|hello",
        ["Hello", "Hey there",]
    ],
    [
        r"what is your name?",
        ["I am a chatbot created by you. You can call me ChatBot!",]
    ],
    [
        r"how are you?",
        ["I'm doing good. How about you?",]
    ],
    [
        r"sorry (.*)",
        ["It's okay", "No problem",]
    ],
    [
        r"I am (.*) (good|well|okay|fine)",
        ["Nice to hear that", "Alright, great!",]
    ],
    [
        r"quit",
        ["Bye for now. See you soon!", "It was nice talking to you. Bye!"]
    ],
```

```python
]

reflections = {
    "i am"      : "you are",
    "i was"     : "you were",
    "i"         : "you",
    "i'd"       : "you would",
    "i've"      : "you have",
    "i'll"      : "you will",
    "my"        : "your",
    "you are"   : "I am",
    "you were"  : "I was",
    "you've"    : "I have",
    "you'll"    : "I will",
    "your"      : "my",
    "yours"     : "mine",
    "you"       : "me",
    "me"        : "you"
}

chatbot = Chat(pairs, reflections)

def chat():
    print("Hi! I am a chatbot created by you. Type 'quit' to exit.")
    while True:
        user_input = input("> ")
        if user_input.lower() == "quit":
            print("Bye for now. See you soon!")
            break
        response = chatbot.respond(user_input)
        print(response)

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

Output:

Hi! I am a chatbot created by you. Type 'quit' to exit.
> hello
Hello
> what is your name?

I am a chatbot created by you. You can call me ChatBot!
> how are you?
I'm doing good. How about you?
> my name is John
Hello John, How are you today?
> I am doing well
Nice to hear that
> sorry for bothering you
It's okay
> quit
Bye for now. See you soon!

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