1)CHATBOT ASSIGN 5 USING SIMPLE IF ELSE

import random

# Chatbot exit condition

global exit

exit = 0

def chatbot\_response(user\_questions):

global exit

DISEASES = {

'COVID-19': {

'overview': 'COVID-19 is a respiratory illness caused by the coronavirus.',

'symptoms': 'Common symptoms include fever, cough, and difficulty breathing.',

'treatment': 'There is currently no specific treatment for COVID-19. Supportive care and symptom management are provided.',

},

'INFLUENZA': {

'overview': 'Influenza, also known as the flu, is a contagious respiratory illness caused by influenza viruses.',

'symptoms': 'Symptoms include fever, cough, sore throat, muscle aches, and fatigue.',

'treatment': 'Treatment involves rest, fluids, and over-the-counter pain relievers to relieve symptoms.',

},

'DIABETES': {

'overview': 'Diabetes is a chronic condition that affects the way the body processes blood sugar.',

'symptoms': 'Common symptoms include increased thirst, frequent urination, fatigue, and blurred vision.',

'treatment': 'Treatment involves medication, insulin therapy, dietary changes, and regular physical activity.',

},

'HYPERTENSION': {

'overview': 'Hypertension, or high blood pressure, is a condition in which the force of blood against artery walls is too high.',

'symptoms': 'Hypertension is often asymptomatic, but it can lead to complications such as heart disease and stroke.',

'treatment': 'Treatment includes lifestyle modifications (e.g., healthy diet, regular exercise) and medication.',

},

'ASTHMA': {

'overview': 'Asthma is a chronic condition that affects the airways, causing inflammation and narrowing, which leads to difficulty breathing.',

'symptoms': 'Common symptoms include wheezing, shortness of breath, chest tightness, and coughing.',

'treatment': 'Treatment involves avoiding triggers, using inhalers (e.g., bronchodilators, corticosteroids), and managing underlying inflammation.',

},

'HEADACHE': {

'overview': 'A headache is a common symptom characterized by pain or discomfort in the head or neck region.',

'symptoms': 'Headaches can vary in intensity and may be accompanied by other symptoms such as sensitivity to light or sound.',

'treatment': 'Treatment options for headaches include over-the-counter pain relievers, rest, and relaxation techniques.',

},

}

user\_questions = user\_questions.upper()

breakdown = list(user\_questions.split(' '))

print("Shinomiya:", end=" ")

if any(disease in breakdown for disease in DISEASES):

for disease in DISEASES:

if disease in breakdown:

print("Overview: " + DISEASES[disease]['overview'])

print("Symptoms: " + DISEASES[disease]['symptoms'])

print("Treatment: " + DISEASES[disease]['treatment'])

break

print("-----------------------------------------------")

elif 'BYE' in breakdown or 'GOODBYE' in breakdown or 'CYA' in breakdown or 'EXIT' in breakdown:

exit += 1

print("Shinomiya: Happy to help! Have a great day!")

elif 'HELLO' in breakdown or 'HI' in breakdown or 'HEY' in breakdown:

greetings = ["Hello!", "Hi there!", "Hey! How can I assist you?"]

print("Shinomiya:", random.choice(greetings))

print("-----------------------------------------------")

else:

print("Shinomiya: I didn't understand your question.")

print("-----------------------------------------------")

# Chatbot greetings

print("--------------Shinomiya---------------")

print("Hello and Greetings, I'm a Chatbot for Diseases.")

print("I can provide information about COVID-19, Influenza, Diabetes, Hypertension, and Asthma.")

print("How may I assist you?")

while exit != 1:

user\_input = input("You: ")

if user\_input.lower() != 'bye':

chatbot\_response(user\_input)

else:

exit += 1