LP2 (AI) Lab Exp No.6

QUESTIONS = [

    'Do you have cough ?',

    'Do you have a sore throat ?',

    'Do you have a fever ?',

    'Are you noticing any unexplained excessive sweating ?',

    'Do you have an itchy throat ?',

    'Do you have a runny nose ?',

    'Do you have a stuffy nose ?',

    'Do you have a headache ?',

    'Do you feel tired without actually exhausting yourself ?'

]

THRESHOLD = {

    'Mild': 30,

    'Severe': 50,

    'Extreme': 70

}

def expertSystem(questions, threshold):

    score = 0

    for question in questions:

        print(question+" (Y/N) ")

        ans = input("> ")

        if ans.lower() == 'y':

            print('On a scale of 1-10 how bad is it ?')

            ip = input('> ')

            while ((not ip.isnumeric()) or int(ip) < 1 or int(ip) > 10):

                print('Enter a valid input !')

                ip = input('> ')

            score += int(ip)

    print("\n")

    if score >= threshold['Extreme']:

        print("You are showing symptoms of having EXTREME COVID-19")

        print("Please call +91-11-23978046 or 020-26127394 immediately to immediate assistance")

        print("Based on your symptoms, You will need Immediate Hospitalization")

    elif score >= threshold['Severe']:

        print("Based on your answers You are showing Symptoms of SEVERE COVID-19")

        print("You are advised to contact a COVID-19 Specialist ASAP")

        print("You are prescribed with Favipriavir, Dolo 650 / Crocin 500, Paracetamol, Brufane")

        print("Also coduct a COVID-19 Lab Test ASAP at your own convenience as this might be a false Positive\n\n")

        print("Lab Testing : https://www.metropolisindia.com/parameter/pune/covid-19-rt-pcr-test")

    elif score >= threshold['Mild']:

        print("Based on your answers You are showing Symptoms of VERY MILD COVID-19")

        print("Please Isolate yourself Immediately on a precautionary basis")

        print("As this has a possibility of being a false positive , please consider testing yourself")

        print("At home testing using Self-Testing kits is recommended , but you can get Lab Tests as well\n")

        print("Self testing : https://www.flipkart.com/mylab-coviself-covid-19-rapid-antigen-test-kit/p/itm4d34ea09cad97")

        print("Lab Testing : https://www.metropolisindia.com/parameter/pune/covid-19-rt-pcr-test")

    else:

        print("You are Showing NO Symptoms of COVID-19")

        print("This might be a false negative, If you feel unsure , please get Tested")

        print("As this has a possibility of being a false negative , please consider testing yourself")

        print("At home testing using Self-Testing kits is recommended\n")

        print("Self testing : https://www.flipkart.com/mylab-coviself-covid-19-rapid-antigen-test-kit/p/itm4d34ea09cad97")

    print("\nFor any further queries visit : https://www.aarogyasetu.gov.in/\n")

print("\n\t\tWelcome To The COVID-19 EXPERT SYSTEM\n")

print("\tNote : Please answer the following questions very honestly\n")

expertSystem(QUESTIONS,THRESHOLD)

OUTPUT: -

