Assignment-06 Medical Expert System (Covid-19)

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**CODE:**

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': 75

}

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\n")

if score >= threshold['Extreme']:

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

print("Please call +91 8112233445 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\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\n")

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

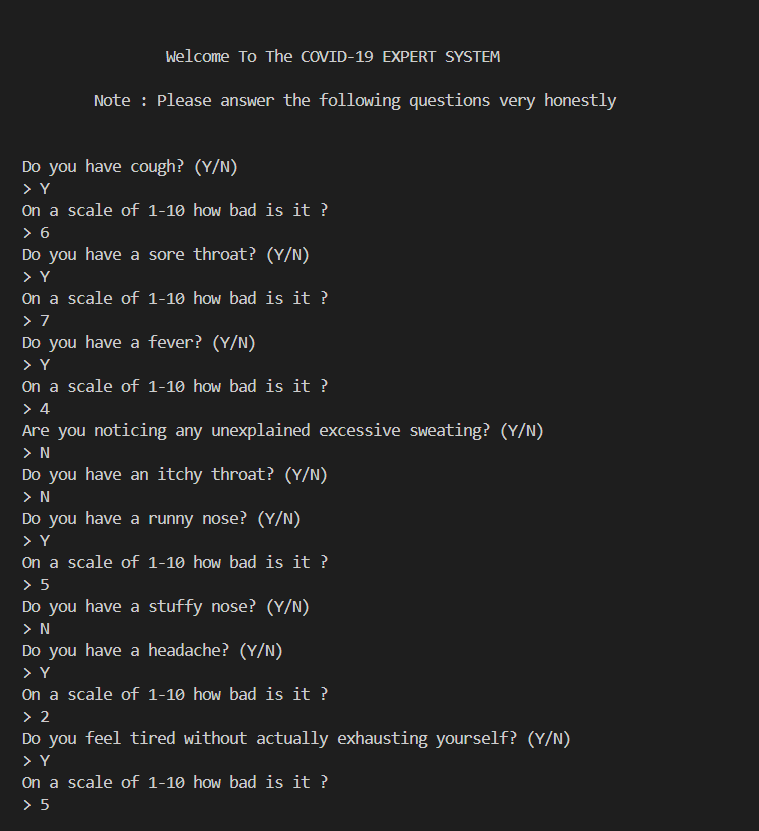
print("\n\nFor any further queries visit : https://www.aarogyasetu.gov.in/\n\n")

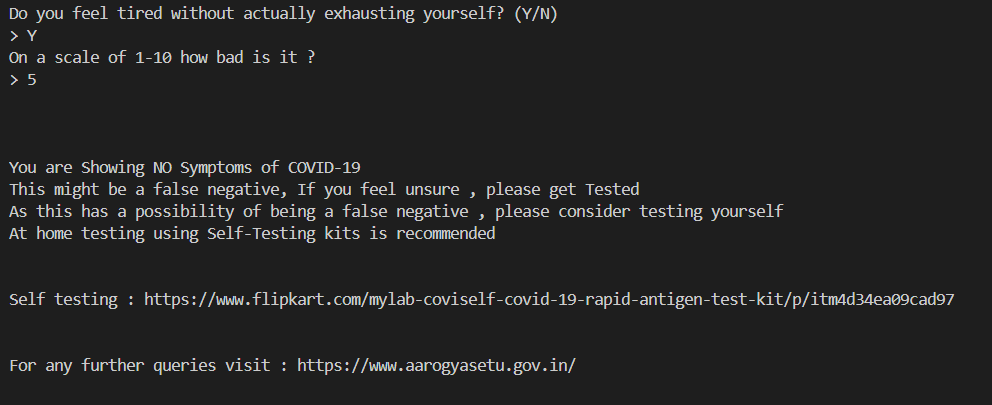
print("\n\n\t\tWelcome To The COVID-19 EXPERT SYSTEM\n")

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

expertSystem(QUESTIONS,THRESHOLD)

**Output:**

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