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**Div: 4**

**Roll\_NO:20U436**

**Assignment No : 6**

**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()  
 print()  
  
 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")  
 print()  
 print()  
 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")  
 print()  
 print()  
 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")  
 print()  
 print()  
 print("Self testing : <https://www.flipkart.com/mylab-coviself-covid-19-rapid-antigen-test-kit/p/itm4d34ea09cad97>")  
  
 print()  
 print()  
 print("For any further queries visit : <https://www.aarogyasetu.gov.in/>")  
 print()  
 print()  
  
  
if '\_\_main\_\_' == \_\_name\_\_:  
  
 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:-**





