



**Yogananda School of AI Computers and Data Science**

**Artificial Intelligence (CSU2219)**

**PROJECT: Using symbolic Ai create an application for Medical Expert.**

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The screenshot shows a code editor interface with a dark theme. On the left, the Explorer sidebar lists a project structure under 'AI' with a folder 'medical\_chatbot' containing files 'chatbot.py' and 'Medical Expert'. The file 'chatbot.py' is currently selected and open in the main editor area. The code is a Python script named 'medical\_chatbot.py' that defines a function 'medical\_chatbot()' which prints a greeting and disclaimer. It then defines a dictionary 'medical\_conditions' mapping symptoms to diseases, providing advice for each. The code uses standard Python syntax with indentation and comments.

```
1  # medical_chatbot.py
2
3  def medical_chatbot():
4      print("👋 Hello! I am your AI Medical Expert System.")
5      print("⚠ Disclaimer: I am not a doctor. I can only provide basic advice.")
6      print("Type 'exit' anytime to quit.\n")
7
8  # Symptom-to-disease mapping
9  medical_conditions = {
10      "cold": {
11          "symptoms": ["cough", "sneezing", "runny nose", "sore throat"],
12          "advice": "Rest well, drink warm fluids, and take steam inhalation. Visit a doctor if it lasts more than 7 days." },
13
14      "flu": {
15          "symptoms": ["fever", "body pain", "headache", "chills", "fatigue"],
16          "advice": "Stay hydrated, take paracetamol for fever, and get enough rest. See a doctor if fever is very high." },
17
18      "migraine": {
19          "symptoms": ["headache", "nausea", "sensitivity to light", "sensitivity to sound"],
20          "advice": "Rest in a quiet dark room, avoid screen time, and take prescribed migraine medication if available." },
21
22      "covid-19": {
23          "symptoms": ["fever", "cough", "shortness of breath", "loss of taste", "loss of smell", "fatigue"],
24          "advice": "Isolate yourself, wear a mask, monitor oxygen levels, and consult a doctor immediately." },
25
26      "allergy": {
27          "symptoms": ["sneezing", "itchy eyes", "runny nose", "rash"],
28          "advice": "Avoid allergens, take an antihistamine, and consult a doctor if symptoms persist." }
29 }
```

The screenshot shows a dark-themed code editor interface. On the left, the Explorer sidebar displays a project structure under 'AI' with a folder 'medical\_chatbot' containing files 'chatbotpy' and 'Medical Expert'. The main editor area contains the following Python code:

```
EXPLORER ... chatbotpy ●
AI
└ medical_chatbot
  └ chatbotpy
    └ Medical Expert

medical_chatbot > chatbotpy
3 def medical_chatbot():
30
31
32     while True:
33         # User input
34         user_input = input("👉 You: ").lower()
35
36         if user_input == "exit":
37             print("👋 Chatbot: Take care! Wishing you good health. Goodbye! 🌟")
38             break
39
40         # Find matching conditions
41         possible_conditions = []
42         for condition, details in medical_conditions.items():
43             for symptom in details["symptoms"]:
44                 if symptom in user_input:
45                     possible_conditions.append(condition)
46                     break # Prevent duplicate matches
47
48         # Give response
49         if possible_conditions:
50             print("👋 Chatbot: Based on your symptoms, you might have:")
51             for condition in possible_conditions:
52                 print(f"   • {condition.capitalize()}")
53                 print(f"       ♡ Advice: {medical_conditions[condition]['advice']}")
54         else:
55             print("👋 Chatbot: Sorry, I couldn't identify a condition with those symptoms. Please consult a doctor.")
56
57
58 # Run chatbot
59 if __name__ == "__main__":
60     medical_chatbot()
61
```

The screenshot shows the continuation of the Python code from the previous editor window. The code is identical to the one in the first window, starting with line 50 and ending with line 61.

```
50         print("👋 Chatbot: Based on your symptoms, you might have:")
51         for condition in possible_conditions:
52             print(f"   • {condition.capitalize()}")
53             print(f"       ♡ Advice: {medical_conditions[condition]['advice']}")
54     else:
55         print("👋 Chatbot: sorry, I couldn't identify a condition with those symptoms. Please consult a doctor.")
56
57
58 # Run chatbot
59 if __name__ == "__main__":
60     medical_chatbot()
61
```

```
medical_chatbot > chatbot.py
me C:\Users\kalsi\AppData\Local\Programs\Python\Launcher\py.exe
d
~$ Symptom 'cough' detected. Possible condition: **Common Cold**.
Me Advice: Rest well and avoid cold drinks.

[ You (type symptoms or 'exit' to quit): running nose
[ Sorry, I couldn't identify a condition with those symptoms. Please consult a doctor.

[ You (type symptoms or 'exit' to quit): running nose

[ Symptom 'running nose' detected. Possible condition: **Common Cold**.
[ Advice: Drink warm fluids and take steam inhalation.

[ You (type symptoms or 'exit' to quit): dry cough

[ Symptom 'cough' detected. Possible condition: **Common Cold**.
[ Advice: Drink warm fluids and take steam inhalation.

[ You (type symptoms or 'exit' to quit): headache

[ Symptom 'headache' detected. Possible condition: **Flu**.
[ Advice: Consult a doctor if fever lasts more than 3 days.

[ You (type symptoms or 'exit' to quit): stomachache
[ Sorry, I couldn't identify a condition with those symptoms. Please consult a doctor.

[ You (type symptoms or 'exit' to quit): vomiting
[ Sorry, I couldn't identify a condition with those symptoms. Please consult a doctor.

[ You (type symptoms or 'exit' to quit): vomiting
```