

Code:

```
def ask_symptom(symptom):
    return input(f"Do you have {symptom}? ").lower() == "yes"

def load_diseases(file_path):
    diseases = {}
    with open(file_path, 'r') as file:
        for line in file:
            disease, symptoms = line.strip().split(':')
            symptoms = [symptom.strip() for symptom in symptoms.split(',')]
            diseases[disease] = symptoms
    return diseases

def diagnose_disease(diseases):
    for disease, disease_symptoms in diseases.items():
        if all(ask_symptom(s) for s in disease_symptoms):
            print("You have: ", disease )

def main():
    print("Please answer the following questions about your symptoms.")
    diseases = load_diseases('diseases.txt')
    symptoms_to_ask = list(set(symptom for disease_symptoms in diseases.values() for
symptom in disease_symptoms))
    diagnose_disease(diseases)

if __name__ == "__main__":
    main()
```

Diseases.txt

Flu: fever, cough, sore throat, body aches

Allergies: sneezing, itching, runny nose, watery eyes

Diabetes: frequent urination, increased thirst, unexplained weight loss, fatigue

Heart Disease: chest pain, shortness of breath, fatigue, nausea

Asthma: coughing, wheezing, shortness of breath, chest tightness

Hypertension: high blood pressure, dizziness, headaches, blurred vision

Alzheimer's Disease: memory problems, decline in non-memory aspects of cognition, increased confusion, behavior changes

OUTPUT:

Please answer the following questions about your symptoms.

Do you have fever? : yes

Do you have cough? : yes

Do you have sore throat? : yes

Do you have body aches? : yes

You have: Flu

Do you have sneezing? : yes

Do you have itching? : yes

Do you have runny nose? : yes

Do you have watery eyes? : yes

You have: Allergies

Please answer the following questions about your symptoms.

Do you have memory problems? yes

Do you have decline in non-memory aspects of cognition? yes

Do you have increased confusion? yes

Do you have behavior changes? yes

You have: Alzheimer's Disease