

Date: Ex No: 2.4	Title of the Lab Medical Diagnosis System	Name: Yuvraj Singh Chauhan Registration Number: RA1911027010058 Section: N1 Lab Batch: 1 Day Order: 3
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AIM:

To implement Medical Diagnosis System.

Description of the Concept or Problem given:

Medical diagnosis is basically a pattern classification phenomena: based on some input provided by a patient, an expert gives a conclusion on the basis of its knowledge, which is normally stored in a binary form, and finally the result is calculated i.e. either the patient suffering from a certain disease or not.

Manual Solution:

The Medical System programs asks the patient a series of questions, to which patient replies in yes or no and then, the system uses if and elif conditions to diagnose the problem of the patient.

Program Implementation [Coding]

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fever = input("Do you have a fever (y/n):- ")
rashes= input("Do you have a rash (y/n):- ")
runnyNose = input("Do you have a runny nose (y/n):-")
conjunctivitis= input("Do you have a conjunctivitis (y/n):-")
cough= input("Do you have a cough (y/n):-")
headAche=input("Do you have a head ache (y/n):-")
bodyAche= input("Do you have body ache (y/n):-")
chills= input("Do you have chills (y/n):-")
soreThroat= input("Do you have a sore throat (y/n):-")
sneezing= input("Do you have sneezing (y/n):-")
swollenGlands= input("Do you have swollen glands (y/n):-")
if fever=='y' and headAche== 'y' and runnyNose=='y' and rashes=='y':
    print("Result: You are diagnosed with German measles")
elif cough=="y" and sneezing=='y' and runnyNose=='y':
    print("Result: You are diagnosed with measles")
elif fever == 'y' and rashes== 'y' and bodyAche== 'y' and chills=="y":
    print("Result: You are diagnosed with chicken pox")
elif fever == 'y' and swollenGlands== 'y':
    print("Result: You are diagnosed with mumps")
elif fever == 'y' and headAche== 'y' and bodyAche=="y" and conjunctivitis=="y" and
chills=="y" and cough=="y" and runnyNose=="y" and soreThroat=="y":
    print("Result: You are diagnosed with flu")

```

Screenshots of the Outputs:

Do you have a fever (y/n):- y
Do you have a rash (y/n):- n
Do you have a runny nose (y/n):-y
Do you have a conjunctivitis (y/n):-n
Do you have a cough (y/n):-y
Do you have a head ache (y/n):-y
Do you have body ache (y/n):-n
Do you have chills (y/n):-n
Do you have a sore throat (y/n):-y
Do you have sneezing (y/n):-y
Do you have swollen glands (y/n):-n
Result: You are diagnosed with measles

Signature of the Student

[YUVRAJ SINGH CHAUHAN]