**Practical No: 1**

**Design An Expert System using AIML**

**AIM: An Expert system for responding the patient query for identifying the flu.**

**Code:**

info = []

name = input("Enter Your name: ")

info.append(name)

age = int(input("Enter Your age: "))

info.append(age)

a = ["Fever", "Headache", "Tiredness", "Vomitting"]

b = ["Urinate A Lot", "Feels Thirsty", "Weight Loss", "Blurry Vision", "Feels Very Hungry", "Feels Very Tired"]

print(a,b)

symp = input("Enter Symptoms As Above Separated By Comma ")

lst = symp.split(",")

print(info)

print("Symptoms:")

for i in lst:

print(i)

if i.strip() in a:

print("You May Have Malaria")

print("Visit A Doctor")

elif i.strip() in b:

print("You May Have Diabetes")

print("Consume Less Sugar")

else:

print("Symptoms Does Not Match")

A computer screen shot of a message

Description automatically generated

b)

**Code:**

name =input("Enter your name: ")

fever =input("DO YOU HAVE fever (Y/N)").lower()

cough =input("DO YOU HAVE cough (Y/N)").lower()

sob =input("DO YOU HAVE shortness of breath (Y/N)").lower()

st =input("DO YOU HAVE sore throat (Y/N)").lower()

mp =input("DO YOU HAVE mucle pain (Y/N)").lower()

hc =input("DO YOU HAVE headache(Y/N)").lower()

#CORONA

diarrhoea=input("DO YOU HAVE diarrhoea (Y/N)").lower()

conjunctivitis=input("DO YOU HAVE conjunctivitis (Y/N)").lower()

lot=input("DO YOU HAVE Loss OF taste (Y/N)").lower()

cp=input("DO YOU HAVE chest pain or pressure (Y/N)").lower()

lsp =input("DO YOU HAVE Loss Of Speech or movement (Y/N)").lower()

if fever=="y" and cough=="y" and sob=="y" and st=="y" and mp=="y" and hc=="y":

print(name+" "+" YOU HAVE FLU")

med=input("Sir/Ma'am would you like to took at some medicine for flu(Y/N)").lower()

if med=="y":

print("disclainer contact doctor for better guidance")

print("There are four FDA-approved antiviral drugs recommended by CDC to treat flu this season")

print("1.Oseltasivir phosphate")

print("2.zonasivir ")

print("3.perasivir ")

print("4.balaxavir morboxil ")

elif diarrhoea=="y" and st=="y" and fever =="y" and cough=="y" and conjunctivitis=="y" and lot=="y":

print(name+" "+" YOU HAVE Corona")

med=input("Sir/Ma'am would you like to take at some remedi for Corona(Y/N)").lower()

if med=="y":

print("TAKE VACCINE AND QUARANTINE")

elif fever=="y" and cough=="y":

print(name+" "+" YOU HAVE Common Cold")

med= input("Sir/Ma'am would you like to take at some remedi for common cold(Y/N)").lower()

if med=="y":

print("--------------------------------------------------------------------")

print("disclainer contact doctor for better guidance")

print("--------------------------------------------------------------------")

print("Treatment consists of anti-inflammatories and decongestants\n Most prople recover on their own")

print("1.Nonsteroidal anti-inflammatory drug, Analgesic, Antibistamine, Cough medicine and Deconges")

else:

print("Unable to identify")

A screenshot of a computer

Description automatically generated