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")
```

```
In [1]: runfile('D:/NK/NK_aai_1.py', wdir='D:/NK')
Enter Your Name: Ninad
Enter Your age: 30
['fever', 'headache', 'tiredness', 'vomitting'] ['urinate a
lot', 'Feels Thirsty', 'Weight Loss', 'Blurry Vision',
'Feels Very Hungry', 'Feels Very Tired']
Enter Symptoms As Above Separated By Comma fever,headache
['Ninad', 30]
Symptoms:
fever
headache
You May Have Malaria
Visit A Doctor
```

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")
```

```
In [2]: runfile('D:/NK/NK_aai_1-2.py', wdir='D:/NK')
Enter your name: Ninad
DO YOU HAVE fever (Y/N)y
DO YOU HAVE cough (Y/N)y
DO YOU HAVE shortness of breath (Y/N)y
DO YOU HAVE sore throat (Y/N)y
DO YOU HAVE mucle pain (Y/N)y
DO YOU HAVE headache(Y/N)y
DO YOU HAVE diarrhoea (Y/N)y
DO YOU HAVE conjunctivitis (Y/N)y
DO YOU HAVE Loss OF taste (Y/N)n
DO YOU HAVE chest pain or pressure (Y/N)y
DO YOU HAVE Loss Of Speech or movement (Y/N)y
Ninad  YOU HAVE FLU
Sir/Ma'am would you like to took at some medicine for flu(Y/
N)y
disclainer contact doctor for better guidance
There are four FDA-approved antiviral drugs recommended by
CDC to treat flu this season
1.Oseltasivir phosphate
2.zonasivir
3.perasivir
4.balaxavir morboxil

In [3]:
```