**CODE**

fromchatterbot import ChatBot

fromchatterbot.trainers import ListTrainer

importos

bot=ChatBot('BOT')

conv=open('E:/chatbot/chats2.txt','r').readlines()

bot.set\_trainer(ListTrainer)

bot.train(conv)

#defavg\_number(x,y):

#return (x\*y)

defBMICalculator(a):

if(a<18):

return('underweight')

if(a>=19 and a<25):

return('normal weight')

if(a>25 and a<30):

return('overweight')

if(a>30 and a<35):

return('obesity CLASS-1')

if(a>35 and a<340):

return('obestity CLASS-2')

if(a>40):

return('obesity CLASS-3')

defDIETPlanner(x):

if(x>25):

return('Here is a complete diet plan for you\nBREAKFAST-->\n1 Bowl of flakes with milk\n2-3 egg omlete without yolk\nJuice without sugar\nLIGHT SNACK-->\n100g of yogurt\nLUNCH-->\nBaked Grill Chicken with salad or steamed/less fried veggies\nDINNER-->\nVegetable Soup/lenthil/bean soup(200-300)GM')

if(BMICalculator(x)=='underweight'):

return('Here is a complete diet plan for you\nBREAKFAST-->\n1-2 Roti with curry\n1 apple\nLIGHT SNACK-->\nMILK/PROTEIN shake,10-15 almonds\nLUNCH-->\nBowl of Brown Rice with Curry and salad\nDINNER-->\nSteamed or less fried Vegetables with Quinoa,Salad')

#print('BOT:Hey there...am your AI diet planner')

while True:

b=input('you:')

print('BOT:Hey there...am your AI diet planner')

message=float(input('BOT:Enter weight(kg):'))

message1=float(input('BOT:Enter height(in metres):'))

c=input('you:')

x=bot.get\_response(c)

print('BOT:',x)

#print('BOT:FORMULA USED FOR BMI CALUCATION (weight)/(height)^2')

BMI=message/(message1\*message1)

#reply=avg\_number(message,message1)

e=BMICalculator(BMI)

print('BOT:You are-->',e)

n=input('You:')

m=bot.get\_response(n)

print('BOT:',m)

k='yes'

#print('BOT:Do you want to know your avg calorie intake according to your weigth(yes/no)?')

#d=input('you:')

if(k=='yes'):

#print('BOT:good!...just wait...')

if(BMI>25):

print('BOT:to reduce weight 0.5kg/week:1978cal')

if(BMI<18):

print('BOT:to increase weight 0.5kg/week:2978cal')

if(BMI>=19 and BMI<=25):

print('BOT:your current calorie intake is sufficient')

else:

break

h=input('you:')

z=bot.get\_response(h)

print('BOT:',z);

s='yes'

if(s=='yes'):

print('BOT:',DIETPlanner(BMI))

o=input('you:')

p=bot.get\_response(o)

print('BOT:',p);

#print('BOT:do you want to know a exercise plan(yes/no)')

p='yes'

if(p=='yes'):

if(BMI>25):

print('BOT: i would suggest jogging,swimming and light yoga')

else:

break

break