```
class SimpleFSM:
  def Thinking(self):
    #local variables
    fatigue = 0
    hunger = 0
    thirst = 0
    states = ["eating", "drinking", "sleeping", "awake"]
    currentState = "awake"
    alive = True
    running = True
    maxLimit = 100
    gameTime = 0
    while running and alive:
       gameTime += 1
      #sleeping: reduce fatigue, everything else increases
      if currentState is "sleeping":
         #sleep
         print("Zzzzzzzzzz")
         fatigue -= 1
         hunger += 0.5
         thirst += 0.5
         #check if not tired
         if fatigue < 5:
           #check for other states
           if thirst > 7:
             currentState = "drinking"
           elif hunger > 7:
             currentState = "eating"
           else:
              currentState = "awake"
       #awake: doing nothing, all variables increase
      elif currentState is "awake":
         #do nothing
         print("Bored . . .")
         hunger += 1
         thirst += 1
         fatigue += 1
         #check for other states
         if fatigue > 15:
           currentState = "sleeping"
         elif thirst > 7:
```

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currentState = "drinking"
  elif hunger > 7:
    currentState = "eating"
#eating: hunger reduces, fatigue and thirst increase
elif currentState is "eating":
  #eat
  print("Om nom nom nom")
  hunger -= 2
  thirst += 1
  fatigue += 0.5
  #check for other states
  if fatigue > 15:
    currentState = "sleeping"
  elif thirst > 7:
    currentState = "drinking"
  elif hunger < 2:
    currentState = "awake"
#drinking: thirst reduces, all other states increase
elif currentState is "drinking":
  #drink
  print("Gulp gulp gulp")
  thirst -= 2
  hunger += 1
  fatigue += 0.5
  #check for other states
  if fatigue > 15:
    currentState = "sleeping"
  elif thirst < 2:
    if hunger > 7:
      currentState = "eating"
    else:
      currentState = "awake"
else:
  #broken
  print("Why are you here? The code must have something wrong with it . . . ")
#checking if starved to death
if hunger > 20:
  alive = False
  print("Gurgle . . . Gurgle . . . *death rattle*")
elif thirst > 20:
```

```
alive = False
    print("*gasp* ... *gasp* ... *death rattle*")

elif fatigue > 20:
    alive = False
    print("*thud* ... *death rattle*")

#checking for end of game time
if gameTime > maxLimit:
    running = False
    print("*siren goes off*")

print("Hello world!")

ai = SimpleFSM()

ai.Thinking()

print("--- The End ---")
```