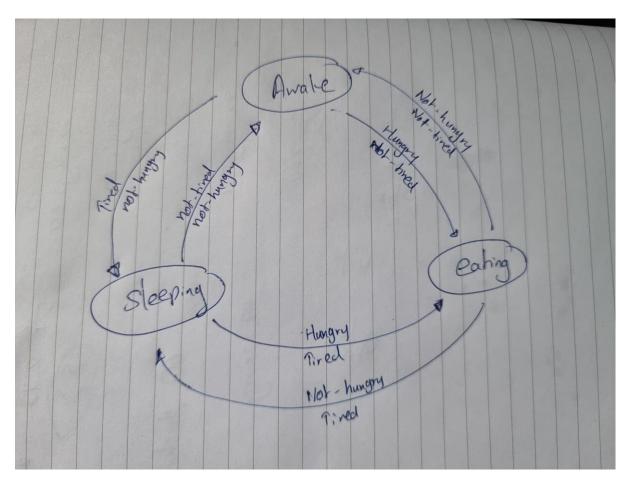
Task 2

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Git link: https://github.com/leoazeez/COS30002-102434407



I have 2 variables and 3 states as stated above.

The diagram shows how as the variables change the state of the character changes aswell.

- If the character is hungry and tired he will be in eating state.
- If the character is hungry and not tired he will be in eating state.
- If the character is not hungry and not tired he will be in awake state.
- If the character is tired and not hungry he will be in sleeping state.

As you can see the eating stage is given more importance because if hunger goes above 20 the character will die.

Code:

```
hile running and alive:
  game time += 1
   if current_state is 'sleeping':
       hunger += 1
       if tired < 5:
       if hunger > 7:
           current_state = "eating"
  elif current_state is 'awake':
       print("Bored.... BORED! ...")
       hunger += 1
       if hunger > 7:
  elif current_state is 'eating':
    # Do things for this state
       tired += 1
       hunger -= 1
# Check for change state
       if hunger < 7:
       if tired > 5:
           current_state = 'sleeping'
```

Output:

```
Num, num, num...
                                 Zzzzzz
Num, num, num...
Zzzzzz
Bored.... BORED! ...
Bored... BORED! ...
Bored... BORED! ...
                                 Num, num, num...
                                 Num, num, num...
Bored.... BORED! ...
                                 Zzzzzz
Bored.... BORED! ...
                                 Num, num, num...
Bored.... BORED! ...
                                 Zzzzzz
Num, num, num...
Bored.... BORED! ...
Zzzzzz
                                 Num, num, num...
Num, num, num...
                                 Zzzzzz
Num, num, num...
Zzzzzz
Num, num, num...
                                 Num, num, num...
777777
                                 Zzzzzz
Num, num, num...
                                 Num, num, num...
                                 Zzzzzz
                                 Num, num, num...
Num, num, num...
                                 Zzzzzz
777777
                                 Num, num, num...
Num, num, num...
                                 Zzzzzz
Num, num, num...
Zzzzzz
Zzzzzz
Num, num, num...
                                 Num, num, num...
Zzzzzz
                                 Zzzzz
Num, num, num...
                                 Num, num, num...
Zzzzzz
                                 Zzzzzz
Num, num, num...
                                 Num, num, num...
                                 Zzzzzz
Zzzzzz
                                 Num, num, num...
Num, num, num...
                                 Zzzzzz
Num, num, num...
Zzzzzz
Num, num, num...
                                 Num, num, num...
Zzzzzz
                                 Zzzzz
Num, num, num...
                                 Num, num, num...
Zzzzzz
                                 Zzzzzz
Num, num, num...
                                 Num, num, num...
                                 Zzzzzz
                                 Num, num, num...
Num, num, num...
```