

# WEEK 4 - HOUR 3

## TODAY'S TERMINOLOGY

### Summary

- While Loops

# MOTIVATION

Eating algorithm

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# WHILE LOOP



## Definition

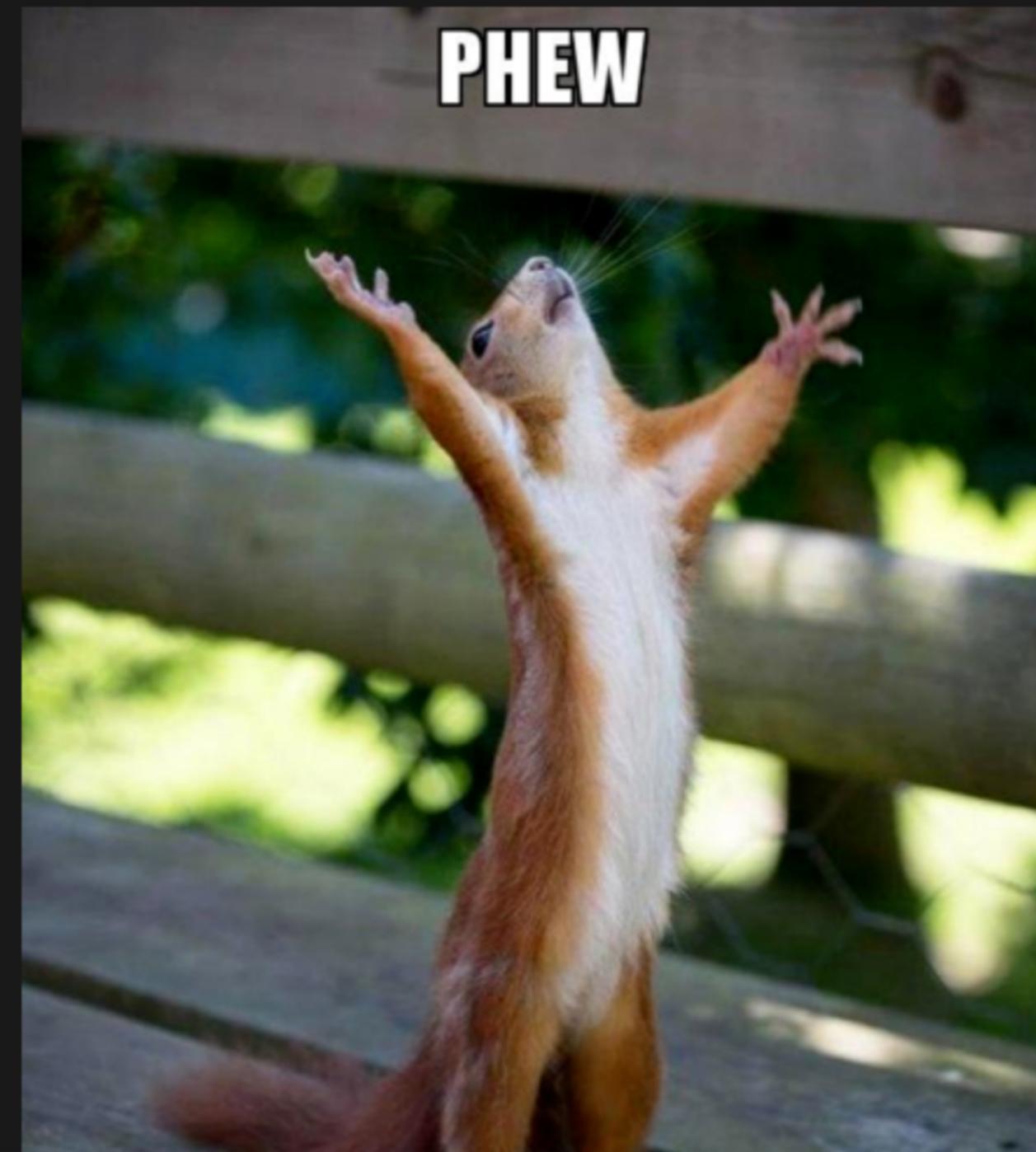
We are able to repeat a specific section of our code while a condition is **true**. As soon as such condition changes to **false**, the loop will stop.



## Attention

Since we are checking for a condition, we need to make sure that the code within the loop is able to change such condition to **false**, otherwise we'd end up with an infinite loop.

# PRINT THE NUMBERS IN A STRING





## Note

This is similar to if statements that we want to run multiple times as long as a certain condition is met

```
n = 37
```

```
if(n % 3 != 0):  
    print(n, 'is not multiple of 3')
```

```
while n % 3 != 0:  
    n = n+1  
print(n, 'is multiple of 3')
```

# WHILE VS. FOR LOOPS



# WORKSHEET

## WHILE LOOPS

