Flow Control (while loop)

Chapter 02b

while Loop an Unknown number of times

• Do something WHILE a condition is **True**.

SYNTAX:

while **condition**:

indented block of code executed

indented block of code executed

••••

••••

#while the condition is True, the while block of code is executed.

#when the while condition is False, program execution will not execute the while clause, program execution will continue after.

while True: print('Good Job!')

#while the condition is **True**, the while block of code is executed. Program control returns back to the while condition.

#when the while condition is False, program execution will not execute the while clause, program execution will continue after.

Trapped in an Infinite Loop Ctrl - C

while True:
 print('Good Job!')

print('Have a Nice Day!')

will never print, because the while loop will remain True

In-Class Exercise: main.py

```
spam = 0
while spam < 5:
    print('Good Job!')</pre>
```

Spam	Condition	True or False

In-Class Exercise: main.py

```
spam = 0
while spam < 5:
    print('Good Job!')
    spam = spam + 1</pre>
```

Spam	Condition	True or False

- break statement is used to exit a loop
- Program execution continues after the while loop.
- Use keyword
 - break

```
while True:
  name = input('Enter your name, quit to STOP')
  if name == 'quit':
    break
print('Thank You')
```

- continue statement are used inside loops
- Program execution jumps back to the start of the loop and the condition is reevaluated.
- Use keyword
 - continue

```
while True:
  name = input('Who are you?')
  if name != 'Joe':
    continue
  print('Hello, Joe. What is the password')
  password = input()
  if password == 'swordfish':
     break
print('Access granted')
```