CPSC 231 - Lab

LOOPS

Looooooooooooo...oooop

Sometimes we need to do a job repeatedly as long as a specific condition is true.

We use loops for this kind of jobs.

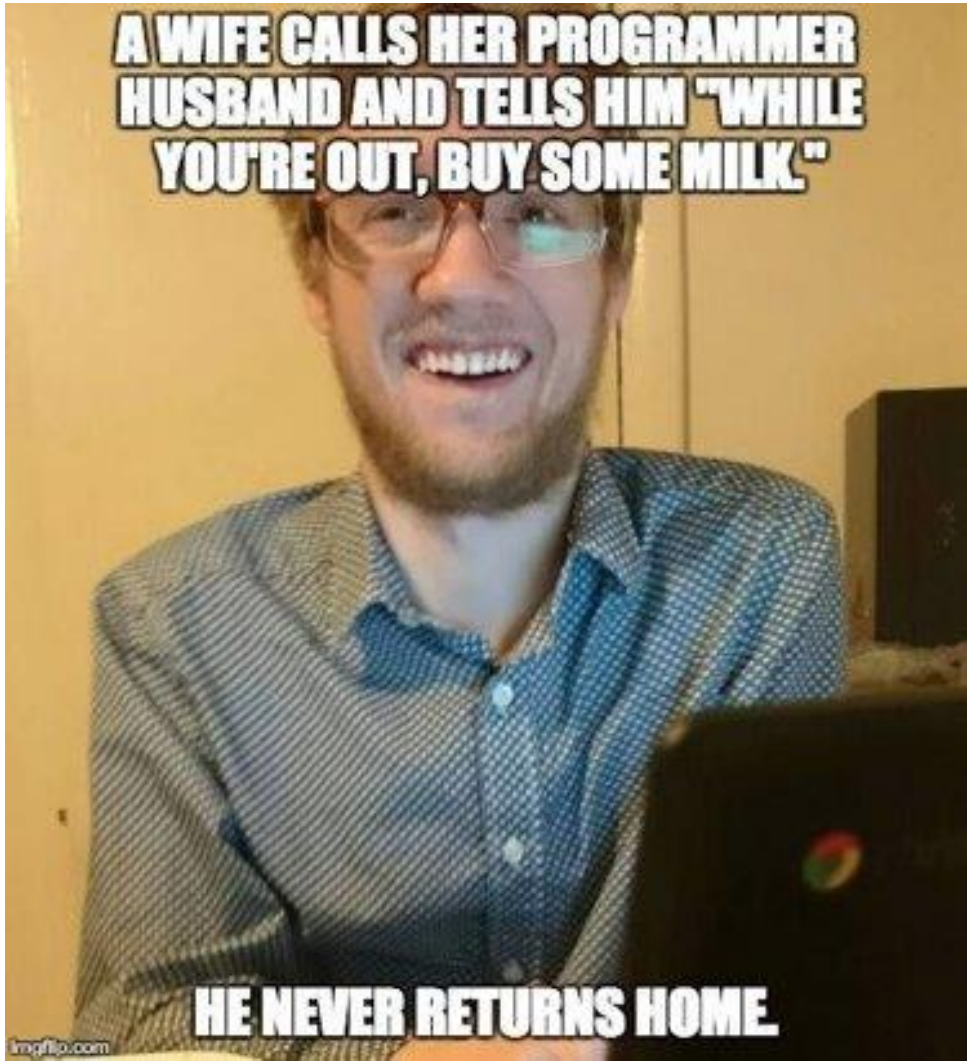
Types of loops?

Simple loops : Keep going if the condition is true

Ranged-base loops: Do the job n times

Simple loop in python

```
# count down
n = input("Enter count down number")
while n > 0:
    print(n)
    n -= 1
```



https://i.pinimg.com/

How to stop a loop?

By voiding the condition:

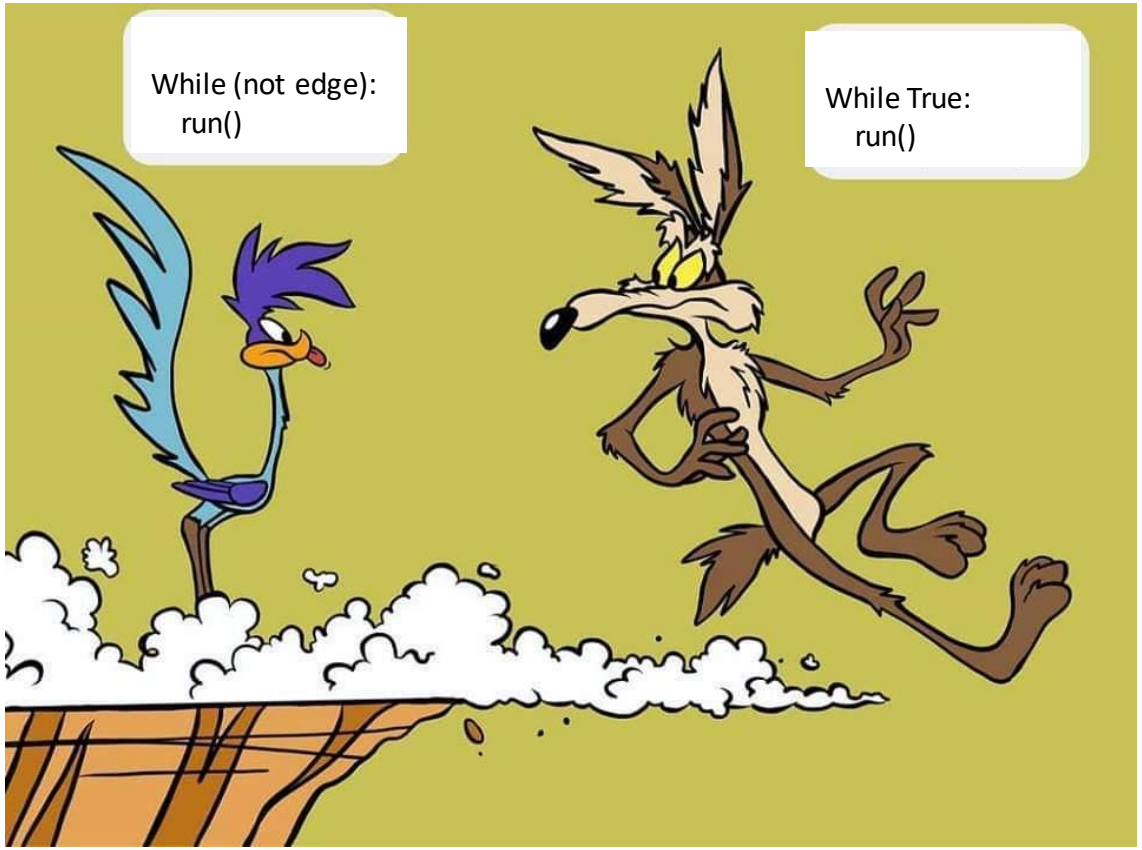
```
user_input = 'yes' #do not forgot to define the variable
while user_input == 'yes':
    user_input = input('Do you want to continue? (yes/no)')
```

How to stop a loop?

Using break:

```
while True:
    user_input = input('Do you want to continue? (yes/no)')
    if user_input != 'yes':
        break
```

NO INFINITE LOOPS!



https://i.redd.it/

Range-base loops

For <variable> in <range>:
  <body>

```
1   for i in range(1, 5):
2       print(i)
3
```

Range function

range(start,end,step)

Example:

range(1,10,2) = [1,3,5,7,9]

range(1,10) = range(1,10,1) = [1,2,3,4,5,6,7,8,9]

range(10,1) = []

range(10,1,-1) = [10,9,8,7,6,5,4,3,2]