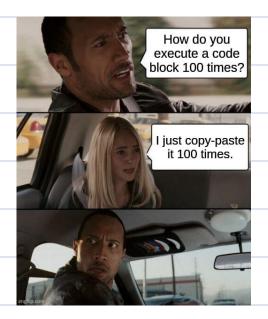
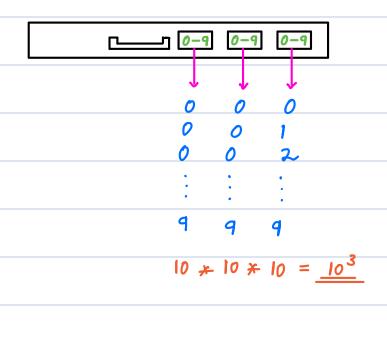
Agenda

| While loop

2 For loop



(conditional statement & loops) - Backbone of a program.



check (num)

num = 0

check (num)

num = num + / /

check (num)

num = num + 1 2

check (num)

 $num = num + 1 \quad 3$

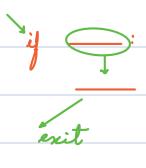
check (num)

num = 0

while (still locked):

check (num)

num = num +1



while true false

$A \rightarrow Print numbers from 1 to 5.$

 $0 \rightarrow \text{ Take start } \& \text{ erd as input } \& \text{ print all even}$ numbers between them.

end & sep ir print()

a → Print numbers I to N in a single line separated by',' $E_{g} \rightarrow N = 5 \qquad o/p \rightarrow 1, 2, 3, 4, 5$

N = irt (irput ())

while $x \le N$:

if x < N:

print (x, erd = ", ")

else:

perint ("completed!")

perint (1, 2, 3, 4) of $p \rightarrow 1$ 2 3 4 print (1, 2, 3, 4, sep = "u") | u 2 u 3 u 4 # #

For loop

while condition is true:

do this

for element in range:

do this

rarge ()

range (3,6) \rightarrow 3 4 5 included excluded

range (start, end) → start, (start+1),... (end-1)

range (end) → 0,1,2... (end-1)

range (start, end, jump) ¬

start, start+jump, start+2*jump,...