Scheme and how it works 6 built around lists (123) notation American British In Scheme () Paren brackets date and [] brackets 59. brackets code is Ex (curly) curly brackets (almost) interchangeable (+12)  $\rightarrow$  3 mening a tunction call

(\* 3 5) => 15 making a tunation call In Scheme, I use a to indicate that a list should not be executed

Car - first item in a list cdr-everything except first tem (car 'la b c) (cdr'(abc)) (b) () list

"(onstruct" list is a chain of cons cells (Pairs) In 1957 (John McCathy) He used CPU registers to make things faster -shoehorned the fist half into "address register" "decrement register"

address reg decrement resiste
Jorest of list
1
Fist ilemof list:
contats of address resister
rest of list:
contests of decrement register
-
How to create new functions
Built in "function" that is used
to make functions
Python: det)
Steme: lambda - crectes
Eurctions

Make a function to add two (lambda (x y)  $(+ \times y)$ (lambda (xy) (+ xy) (1cmbda (x y) (+x y)

(define add-nums (landda (x y) (+ x y)))