Scheme: Powen-theses is parentheses

Python	Scheme
func (parl, parl)	(func parl parl)
x +1	(+ x 1)
X = = 2	(= × 2) (numbers only)
x.equals(y)	(egyal? x y)
x== y	(equ? x y)
χ = 2	(define x 2)
def x():	(define (x) 2)
return 2	(define (x) z) (define (x yz) (y+z))
Link (1) Link (1, Link, empty)	(cons nil)
Link (1, Link (2))	(cons 1 (cons 2 nil))
5. first	(car 5)
5.rest	(cd; 5)
S.rest.first	(corr (cdr s))
if <pre>consequence> else: <ahternative></ahternative></pre>	(if pred conseq alter) (if pred conseq alter)

```
if spredicate 1>:
                         (cond (pred) cons)
    (consequence 17
                               ((pred2) cons2)
 elif Spredicate 27:
                               (else alternative)
    < consequence 2>
 else:
   <atternative>
· Some useful operators
      even? odd? null? modulo equal? equ?
             if 1st is Link. empty()
008 mil are truty!!!
Warm Up:
                                 A:
(define x Lt 1 2 3))
B:
L'detine (x) (+123))
                                  det x ():
                                      hoturn 1+2+3
(dutine 5 (54612) 37))
   (cor (cdr (cdr (cdr 5))))
```

S. rest. rest, first

```
(define (fib n)
    (H (Ln 2)
                                     fib(a) = 0
          (+ (fibe-n 1))
                                     fib(3) =
              (fib(- n 2)))
                                     fib(3)=
                                     fib (4) = 7
det fiblindi
    if n < 2:
       return n
    else:
       return fib(n-1) + fib(n-2)
off:
(define (fib n)
  (cond (1= n 1) 1)
        (6 (6 n =))
        lesse (+ (+ib(-n))
                 (tip(-n 2))
        )
```

6:P(1) = 10

fib (5) = 5

fib(6) = 8

Q5 (define (duplicate 1st) (null? 1st) (1,4 nil (cons (corr lot) (cons (car 1st) (duplicate (cdr 1st)) return 9 [] -> 2] -> 2] -> 2] -> (new list) Constation doesn't really exist) det duplicate (150): if lot is Link. empty! return Link empty else: return Link(1st. first, link(1st. first, duplicate (1st. rest)))