

* Recursion level-1 N= 5

Factorial of a Number

-) +(1)

prints(N)

Fact (5) = 5 * fact (4)

F(N) = N* F(N-1)

F(S)

Sun(n-v) 1==n=1

print(v) neturn

fun (2 Sunc

fon(5 N=5 Ans = S1 = 5*4*3 +2 *1=5x4

Sun(1

) 4 x fact (3)

1)7 *

(n) nut

(5/87)7

fun(s) -> fun(x) -> fun(z) -> fun(z)

54321

S Sum of digits N=1342 / Ans = 1+3 + 4"+2 return F(N/10)/+F(N/1/10) F(1342) 82 + F(134) 2 4 + F(13) 83 + F(1 n-- 15 --- n V5 -- n passing n subract First then pass Subtracting Q Reverse a number ? N= 1824 => 4281 1824 -> 4 + F(182) 2 + 8(18)

Classmate



sum = 0 for (n)

 $\hat{\boldsymbol{U}}$

if(n=0)return'

10m = n 1/10

Sum = Sum *10+ rem

for (110);

10 m × 10 ang- + F(N/18 N= 1234

4 + 123/12/1

4 * 1000 + 123

4*103+123) 3 * 102 + F(12)

count no of «zeros in a number. Q

N = 30204 Ans = 2

o it we take count inside argument

F(N, c) -> 18 digit = 0 el se

A special example to return same value to above function calls, F(30204,0) (3020,0) arcton