Functions in python.

-> a block of neurable code
that performs a specific tarre.

Purpose: Avoid Code Prepetition.
improve resolutority and
greadability

Syntax.

def function hance (parameters).

Function body.

Suntion with parameters def and (a, b):

Day Statement

def future_function ()

Day # placeholder will are

Pars # placeholder will ådd logic later. Return statement

-> Sends back a Value from a clef Square(1): function.

Neint = square (4) Print (sunt)

Global and Coal Variables
Local: insude function, accessible only
there
Global: Outside function, accessible throughout

X210 # Global. def my-function (); Y=5 #local. Punt (y) Keewsion. - a function colling itself. def factoral(n) f = -1:

return 1 return nx factoral (n-1) * angs -> Allows paning multiple arguments

d. 1 . 1. as a tuple. def add-number (xangs): Return Sum (ongs) Muniel (add-numbers (1,2,3,4)) * * Kwargs, -> allows pawing multiple Keywords arguments as a dictionary First Claus furctions: functions can be Assigned to variables, Parisol as arguments Returned from other functions. def great (functions) Lambda finitions = arynchonom for -defined hello) Square = landela x: x *x Map () - Apply function to all elements. Map (lambola x: X*x, [1,2,3]) filter() - Select elements based on condition filter [lambda X: X 1/2 = =0, [1,2,3]) reduce () - Combine elements to single reduce (lambda x, y:xxy; [1,2,3])