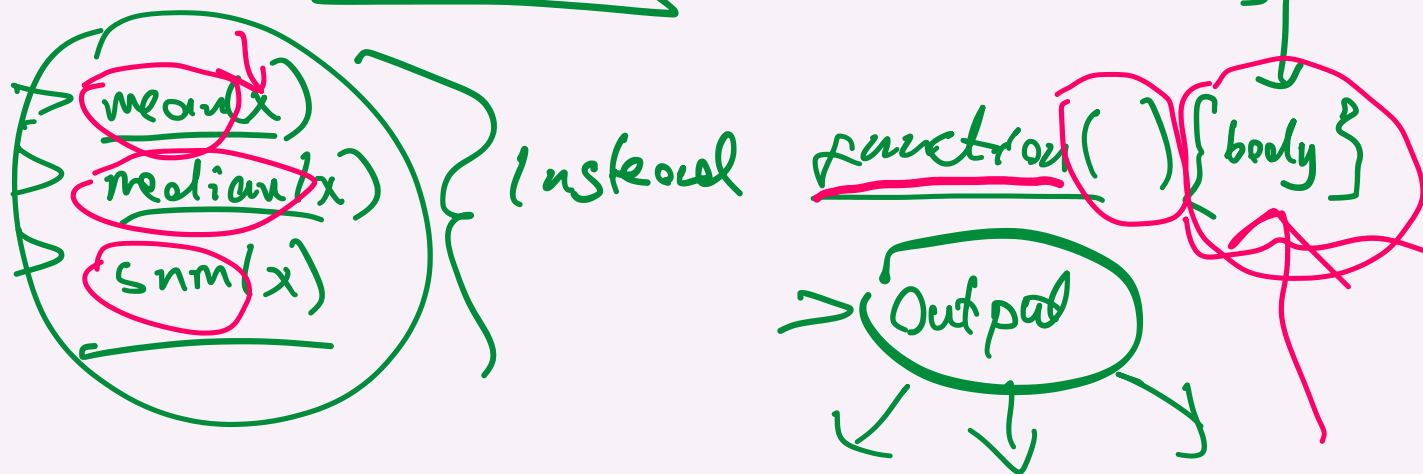


Functions

Why do we need functions?

A function is used to carry out operations which require two or more codes of lines to execute.



R (Structure of Functions)

1- The word function

2- A pair of round parenthesis $()$ which enclose the argument list (elements of this list is a comma-separated list).

3- A single statement or a sequence of statements enclosed in curly brackets $\{ \}$.

Homework:

$$f(x) = \begin{cases} 3x+2 & , x \leq 3 \\ 2x-0.5x^2 & , x > 3 \end{cases}$$

Define the function in R and plot it.