

function

function

sub routine

method

“.. is a sequence of program instructions that perform a specific task, packaged as a unit.”

<https://en.wikipedia.org/wiki/Subroutine>

Human example - remember?

Wash up your clothes!

Human example

Imagine if you had to write a set of instruction on how to get on “Bus 16”, “Bus 23”, “Bus 238”

... easier to write a general instruction which can be reused.

block

Washing up:

- open door/lid

- put dirty clothes in machine

- put in washing powder

- close door/lid

- press "Start"

function

Washing up:

open door/lid

put dirty clothes in machine

put in washing powder

close door/lid

press "Start"

open door / lid:

move arm towards lid

grab handle

turn handle clockwise

....

function

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close door/lid

press “Start”

open door / lid:

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grab handle

turn handle clockwise

....

grab handle:

relax muscles

....

function - use your own?

Oh yes, easy!

function

clean it all:

vacuum

washing up

.....

function - how is it executed?

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function - but why?

encapsulate

reuse

function - definition recap

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Some final words

Most languages come with a set of functions
“built-in”.

Example:

print/write to file/network

read content from file, network

math