

# Introduction to Python

DeltaWomen - UNOV

2019-07-05

# Class details

- Class time: **Fridays 5pm - 7pm (GMT+1)**
  - Lecture: 5pm - 6:15pm
  - Q&A: 6:15pm - 7:00pm
- Instructor details:
  - Name: Aslamah
  - Contact: [arahman.vol@gmail.com](mailto:arahman.vol@gmail.com)
- All course material will be available on GitHub
  - <https://github.com/aslamahrahman/Python-UNOV-2019>

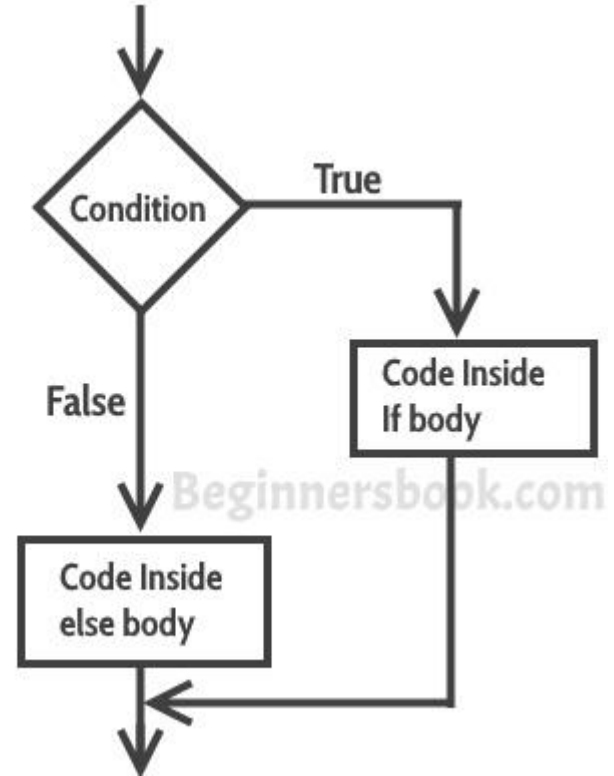
# Topics for today

- Lists / Arrays
- Tuples
- Dictionaries
- Comments in code
- If else elif statement
- Demo - Coding a calculator
- Loops & iterations
- Functions
- Calling functions
- Function parameters
- Calculator demo with functions
- Parts of a function
- Variable scope
- Recursive functions / Recursion

For the first list of topics, refer to class  
recording from Week 3

# If-else-elif statements

- Called conditional statements
- If condition is satisfied, execute a block of code
- If not, do something else
- 0 : FALSE
- 1 : TRUE
- Syntax & alignment
- Nested if-else statement

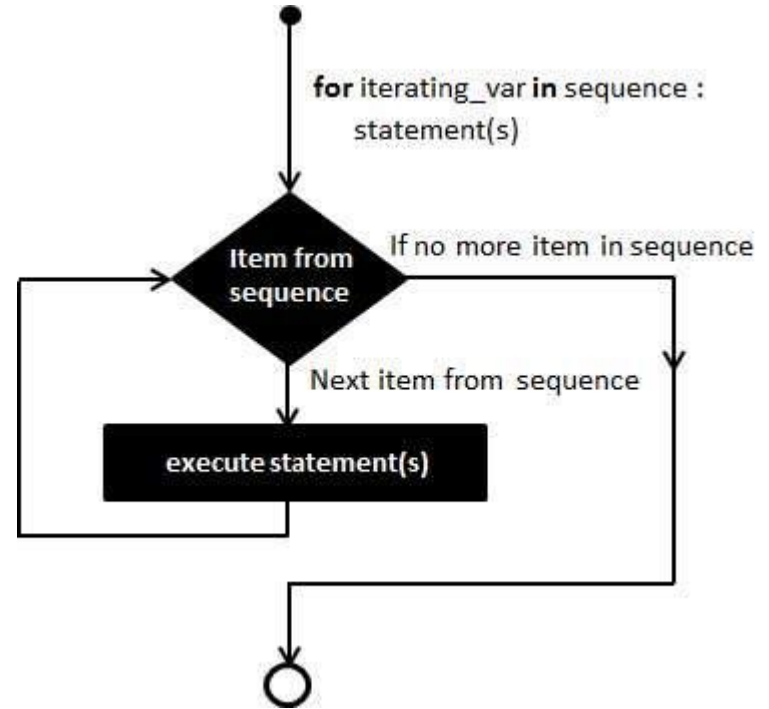


# Creating a calculator demo

- Variables
- Operations
- Displaying result

# Loops / Iteration

- Iterate over numbers / lists
- range()
- Types of loops & how they are executed:
  - For loop
  - While loop
  - Do while loop
- Demo

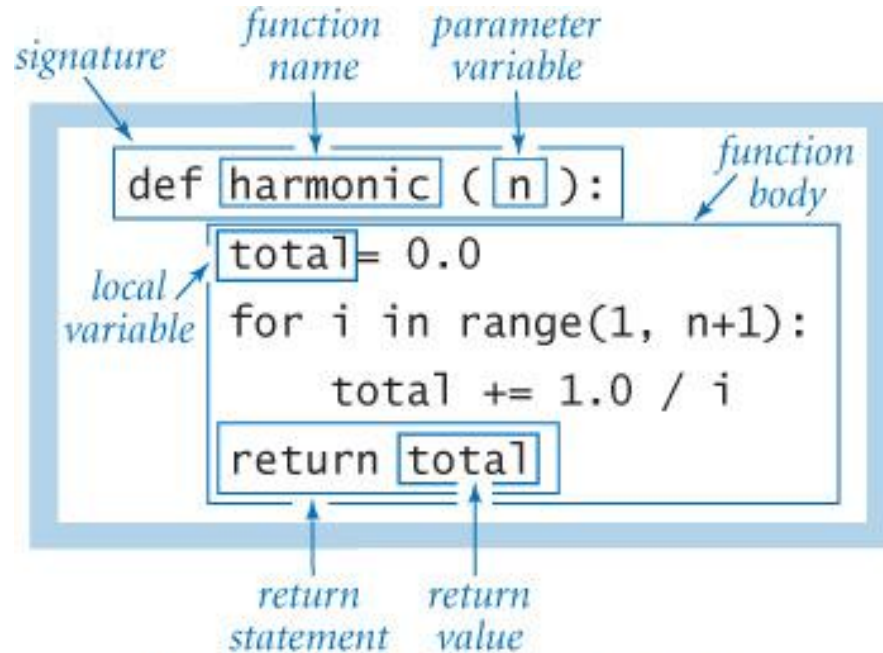


# Functions

- A piece of code / group of lines of code that can be called for execution as we want
- Modularizing code
- Function definition
- Calling functions
- Function parameters
- Default parameters
- Returning values from function
- Calculator demo with functions



# Parts of a function



*Anatomy of a function definition*

Questions?