# Week 1 - Conditional Statements, flow control and functions

This lab sheet will serve as a basic introduction to programming. After this session you will know the basic python syntax to carry out the following:

* Set up basic variables;
* Write if statements (so called: 'Conditional statements');
* Write while and for loops (so call: 'flow control');
* Define functions;
* Write clear and consistent code.

## Basic variables

Describe what a variable is.

1. Copy this and see what happens.
2. Carry out basic calculation.
3. Going from variable type to an other.

## If statements

Describe basic if statements.

1. Copy this and see what happens.
2. Output something based on length of a variable.
3. Use a raw\_input statement.

## Loops

Describe type of if statements in general.

## Functions

Explain functions. Explain how to write functions.

## Writing clear code

Point towards PEP8.