

## **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.