

Exercise list - weekend course

Support in filling these exercises can be found in the Python Cheat Sheet. You can use a code editor and the command line, or you can use repl.it.

Enjoy!

Day 1: Basic syntax

Topic	Exercise	Done?
Git and version control	Go to github.com and create a GitHub account. You will need to remember your username and password, so keep them safe!	
Variables, input	Ask for the users name and print out "Hello" and their name.	
Functions, input, conditions	Create a function that asks the user if it is raining and suggests different activities based on that.	
For-loops	Write a program that has a list of your favourite foods, and for each of them prints out "I like " and the food.	
Functions	Write a program that asks the user for the price of a meal, then calculates the VAT (ALV) that will be added as well as a suitable tip (5%) to the price.	
Functions, arrays	Write a program that takes in text and ciphers it using Caesar's Cipher and a shift of 3 forwards. Use an array with the alphabet letters in it. You can find a description of Caesar's Cipher on Wikipedia.	
Functions, arrays	Tic-tac-toe: https://repl.it/@magdapoppins/Python-Tic-Tac-Toe	

Day 2: Repetition and using modules

Topic	Exercise	Done?
Functions, random, arrays	Create a program that creates passwords by mixing together randomly selected subjectives, adjectives and characters.	
OS, files	Write a program writes a diary to your desktop. Every diary post should have a date, a topic and the text itself.	
Turtle	Write a function that takes two parameters, width and color, and draws a square of that width and color. Use a for-loop.	
Turtle	Write a program that draws 100 different colored dots on the turtle screen. Use random to select the coordinates and colors for the dots. You can also use random to set the dots radius.	
Turtle, loops	Write a program that creates mandalas using for loops.	

This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International Public License.

(Read more at <https://creativecommons.org/licenses/by-nc-sa/4.0/>.)