

# PYTHON CODE ANALYSIS

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## 1. Introduction

### 1.1 Description

This is a report document of the code in Python for project ../ex1. The files of the project are:

- > **scriptSelector.py**
- > **task1.py**
- > **task2.py**

### 1.2 Objectives

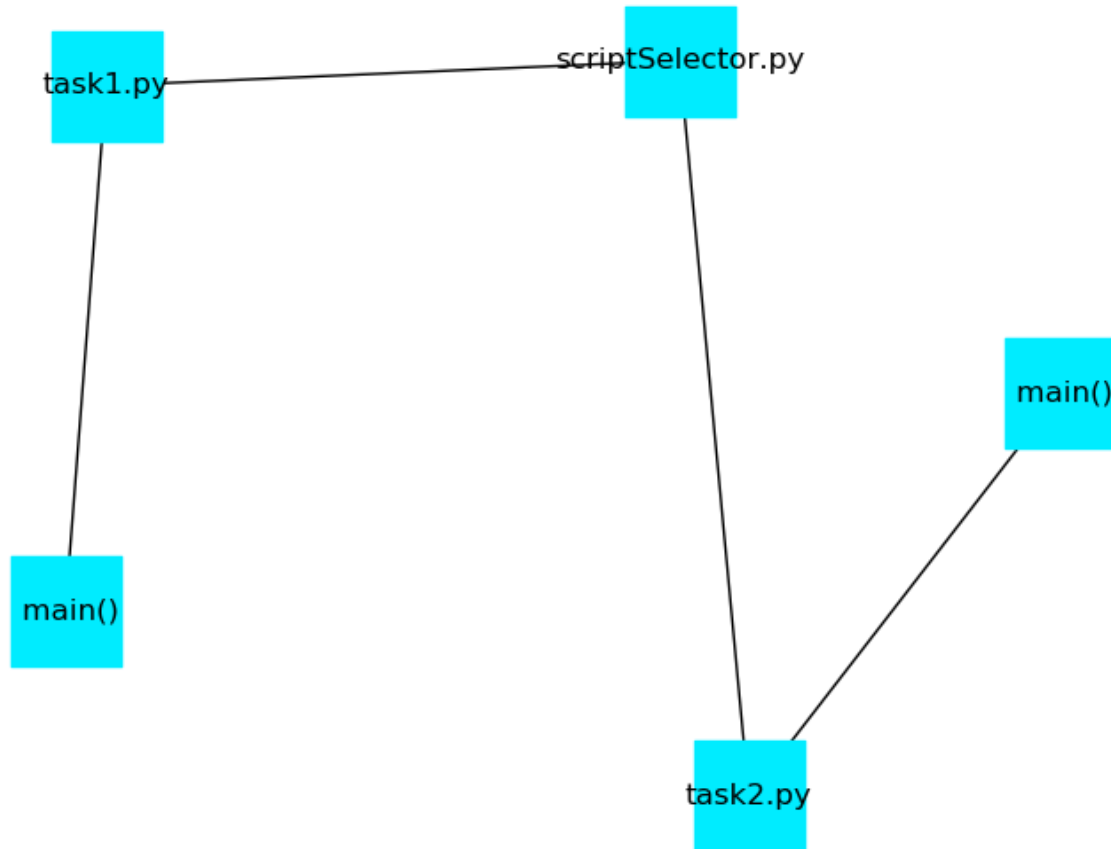
The objective of the document is to extract from the project coded in Python the main components, with the functions, the variables. This is the way to have a better understanding of the code, and to shorten the time to manage any improvement or modification of the code.

The document includes:

- > **The functions**
- > **The variables**
- > **The relationship between them**
- > **The imported libraries**
- > **The list of comments**

### 1.3 The structure of the project

The structure of the code is:



## 2. The programs

The list of the programs of the project is detailed in the next section

### 2.1 scriptSelector.py

Imported libraries are:

- > **task1: line 1**
- > **task2: line 2**

Defined functions are:

- > **There are no defined functions**

The comments on code are:

- > **we exit the infinite loop: line 9**
- > **Case insensitive: line 7**

The used variables are:

- > **There are no defined or used variables in the code**

The used functions are:

- > **There are no defined or used functions in the code**

### 2.2 task1.py

Imported libraries are:

- > **pdfkit: line 1**
- > **requests: line 2**

Defined functions are:

- > **main(): line 5**

The comments on code are:

- > **generate the pdf: line 13**
- > **and change the encoding to make sure special characters get rendered properly in the pdf: line 11**
- > **we get the text from the url, then remove the marquee from the original document: line 10**
- > **get the information from the url: line 7**

The used variables are:

- > **There are no defined or used variables in the code**

The used functions are:

- > **There are no defined or used functions in the code**

## 2.3 task2.py

Imported libraries are:

- > **requests: line 1**
- > **random: line 2**
- > **pdfkit: line 3**
- > **BeautifulSoup: line 4**

Defined functions are:

- > **main(): line 7**

The comments on code are:

- > **Partial Table: line 67**
- > **Complete Table: line 63**
- > **if the last number given by the user is larger than the number of verbs remaining, we adjust it: line 47**
- > **Pdf formatting: line 31**
- > **We retrieve the verbs and store them for later use: line 12**

The used variables are:

- > **There are no defined or used variables in the code**

The used functions are:

- > **There are no defined or used functions in the code**

### 3. Some statistics

The project has 3 programs, with 2 defined functions. The program defines 25 variables and import 4 libraries (external libraries) on 130 lines of python code.