

## **GRAPHICAL USER INTERFACE**

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In our days a graphical user interface (GUI) is very useful and convenient for work. People always use it for own needs. When there was no GUI, people had to have command line skills. The command line is very useful for checking some information and doing some tasks but it's used only by users who have a knowledge about it. They have programming skills and they know why they use it. Regular users will not use it, and they need something that will facilitate their interaction with the computer. GUI was created specifically for this purpose. Different programming languages have different ways of creating GUI for users. One of them is «Python». Python is an interpreted, high-level and general-purpose programming language[1]. There is a special module called «Eel» that is used for creating GUI.

Firstly, you need to install the module. The installation is easy and you have to enter one command in the command line. After that you can use it for work. There are many features that are so useful for work. You can change a name, size, position and many other parameters of the GUI program that the user will see. The main logic of the program is written in the «Python» programming language where you use the basic functions to perform the main calculations with the aim to provide the results to the user. The results that the user can see are sent to another file that can print them on the screen. An expansion of the files is ".html". It is the expansion of the HyperText Markup Language (HTML) which is used to display the information in a web browser but here we use this technology for creating our own programs[2]. With their help we build a template of our program and then we use the Cascading Style Sheets for decorating our program so that the user can use the program easily[3]. If there is a HyperText Markup Language, you can use JavaScript as well. It's an object-oriented prototype of programming language[4]. JavaScript is used for more complex tasks, but here we can use it for simple manipulations with our program and make it more comfortable to use. The main task of this language that we have to use is an asynchronous function. The asynchronous function will take the information that the user enters in the «.html» file and pass it to the «Python» file where the information will be calculated. After that, the information will be returned to the JavaScript file. The information will be processed and returned to the «.html» file and at the same time it will be displayed on the user's screen. Moreover, you can do some features to ensure a good look. For example, you can create a nice pop-up window that will be used to display the final results of your program or you can pin a main menu bar that will be scrolled with the user's main scroll bar.

In general, it's a good choice for creating a simple program with graphical user interface. If you have good skills in «Python» programming language and you would like to create a simple program to show your knowledge in practical work it's so easy way to do it. You will get a good practice and users will get a user-friendly interface. They can use your program without any problems.

## **References**

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