**Developers Institute**

**Python Course**

**EXAM 1**

**THEMES:**

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| --- | --- | --- | --- |
| * Classes, Object | * List, Dictionaries, JSON | * Functions | * Regular Expressions |

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Subject: We want to create functionalities for a **Shoe Store Website**.

Our client has already one file to store the products.

Here are the functionalities that the client wants for his website.

1. Be able to ask the customer for the location of the wanted store (1 possibility)
2. Be able to ask the customer for the color wanted (1 possibility)
3. Be able to inform the user of the name, brand, price, and number of shoes in the particular store, in the particular color. (Note: the number is the number of pair)
4. Be able to ask the customer for his order (brand, name, quantity) and sum it up. All the orders have to be saved permanently. A customer can have more than one order.
5. Be able to change permanently the number of pair of shoes, depending on the quantity ordered.
6. If the user doesn’t give a quantity (and in order to not get stuck), the quantity ordered should be one by default.
7. Be able to see the customers’ orders only if the status of the user of the website is “Administrator”.

One of our clients, liked the functionalities we created for the **Shoe Store Website**. They want the same, but they also want special functionalities:

1. They want their customers to be able to search for a brand and/or name, and then inform them of the available shoes for the word typed.
2. Even if their customers, don’t type the whole name of a brand and/or name, they still want to be able to inform them of the available shoes for the word typed.
3. They want their customers to be able to give a review on their order and to save it permanently. The result has to be translated into stars, depending on the amount of positive or negative words used by the customer.

Example: “**Very** nice shoes, **very** pretty, **very** comfortable” will be translated by 3 stars (\*\*\*)

Example: “**Very** nice shoes, **very** pretty, but **not** comfortable” will be translated by 2 stars (\*\*)

**Important:** Everything has to be User Friendly. Don’t forget that they are functionalities for a website.

**Important:** Think about the structure of your code, it has to be **READEABLE** 🡺 **WORK LOGICALLY 🡺 Test and Print the results**

**Important:** If you don’t manage to create the functionality, hard code the result and just pass to the next functions.