# Lab: Functions

Problems for in-class lab for the [Python Fundamentals Course @SoftUni](https://softuni.bg/trainings/3368/python-fundamentals-may-2021).

Submit your solutions in the SoftUni judge system at <https://judge.softuni.bg/Contests/1727>.

## Grades

Write a function which **receives a grade** between **2.00** and **6.00** and **prints the corresponding grade in words**.

* 2.00 – 2.99 - "Fail"
* 3.00 – 3.49 - "Poor"
* 3.50 – 4.49 - "Good"
* 4.50 – 5.49 - "Very Good"
* 5.50 – 6.00 - "Excellent"

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 3.33 | Poor |
| 4.50 | Very Good |
| 2.99 | Fail |

### Hints

* Read the grade from the console:



* Then, create a function and make an if statements for each case:



* Pass the input grade to the function:



## Calculations

Create a function which **receives** three parameters, **calculates** a result depending on the given operator and **returns** it. Print the result of the function.

The input comes as three parameters – an operator as a string and two integer numbers. The operator can be one of the following: '**multiply**', '**divide**', '**add**', '**subtract**'.

### Example

|  |  |
| --- | --- |
| **Input** | **Output** |
| subtract  5  4 | 1 |
| divide  8  4 | 2 |

### Hints

* Read the input data from the console:



* Then, create the function and make an if statements for each case:



* Print the result by calling the function and passing the given parameters.

1. **Repeat String**

Write a function which receives a **string** and a **counter** **n**. The function should **return** a new string – the result of repeating the old string **n** times. Print the result of the function. Try using **lambda**.

**Examples**

|  |  |
| --- | --- |
| **Input** | **Output** |
| abc  3 | abcabcabc |
| String  2 | StringString |

**Hints**

1. Read the input data:



1. Create the function:



1. Print the result:



1. **Orders**

Write a function which **calculates** the **total** **price** of an order and **returns** it. The function should receive one of the following products: "**coffee", "coke", "water" or "snacks"**, and a **quantity** of the product. The **prices** for a single piece of each product are:

* coffee - 1.50
* water - 1.00
* coke - 1.40
* snacks - 2.00

Print the result **formatted** to the **second** **decimal** **place**.

**Example**

|  |  |
| --- | --- |
| **Input** | **Output** |
| water  5 | 5.00 |
| coffee  2 | 3.00 |

## Calculate Rectangle Area

Create a function which **calculates** and **returns** the **area of a rectangle** by given **width** and **height**. **Print the result** on the console.

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 3  4 | 12 |
| 6  2 | 12 |