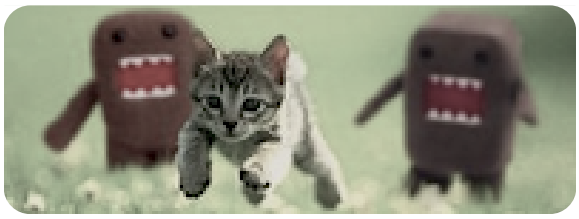
{EPITECH}
LEARN DIFFERENT*

PRE-POOL

DAY 03

PRE-POOL

BANDIT WARGAME
In addition to the tasks below, you must go as far as possible in this game.
Work on it as soon as you have a bit of time, or whenever you need a break in you day!



Strings

Task 00

Store a string in a variable. Then, print it.

Task 01

Print the 1st character of your string.
And also the 5th one.

Task 02

Print the last character of your string.

Your code should work for any non-empty string.

Task 03

In one line, print from the 5th to the 10th character of this string.

String methods

Task 00

Write a snippet of code that transforms any string in lower case.

Task 01

Write a snippet of code that replaces every “tu” in a string by “ta”.
For instance, the input `tutu on the tuki-kata` will output `tata on the taki-kata`

Task 02

Explain the following code and its printed result:

```
string = "hello world"
position = string.find("a")
print(position)
```

Task 03

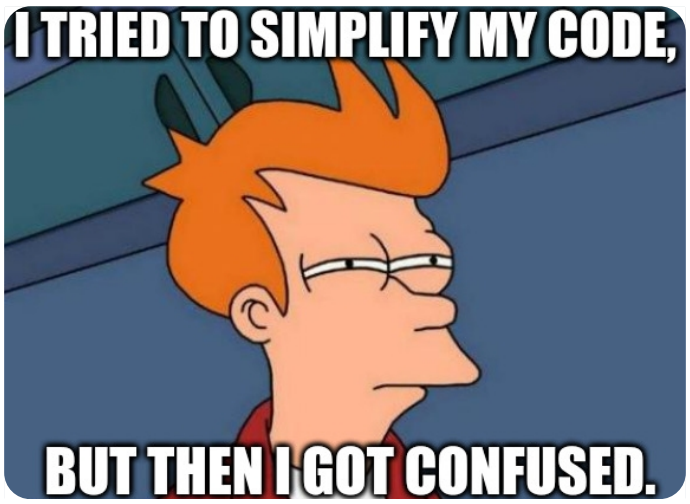
Can you predict the result of the following snippet of code?

```
p = "abcdefghij"
print(p[::-2][:5][::-1][3:])
```

Do you really know how substrings work in Python?

Task 04

Can you simplify the previous code?



Task 05

Write a snippet of code that prints 10 times a given string.

Task 06

Rewrite the previous code in as few characters as possible.

Task 07

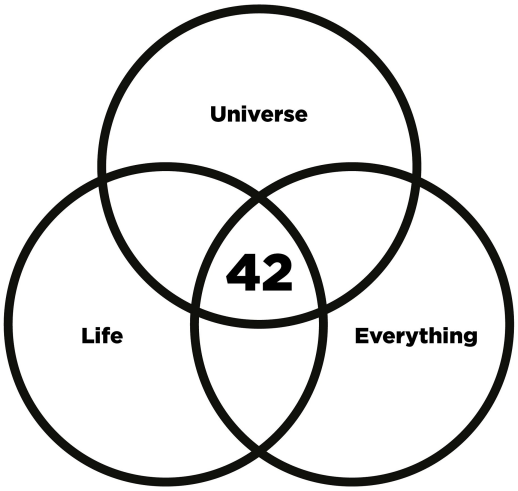
Debug the following code:

```
s1 = "Hello"
s2 = 42
concat = s1 + s2
print(concat)
```

Task 08

Complete the following code so that it prints `The string "42 is the answer" contains 16 characters.`

```
string1 = "42"
string2 = "is"
string3 = "the answer"
concat = xxxxxxxxxxxxxxxxxxx
print("The string xxxxxxxxxxxxxxxxxxxx characters).")
```


Universe
42
Life
Everything

CHALLENGE

Write a snippet of code that counts the number of occurrences of the strings “Cat”, “Garden” and “Mice” in any string.

The substring can be read left to right or right to left
Matches must be case insensitive.

The string “thE Cat’s tactic wAS tO surpRISE thE mIce iN tHE gArdeN” should return 4.

User input

Task 00

Ask the user his/her name and then greet him/her with “Hello *username*”.

Task 01

Ask the user his/her name and then greet him/her with “Hello *Username*”, with the user’s name always printed with its first (and only the first) letter capitalized.

Task 02

Prompt the user for two numbers and then print “The sum of the two provided numbers is *sum*”.

Task 03

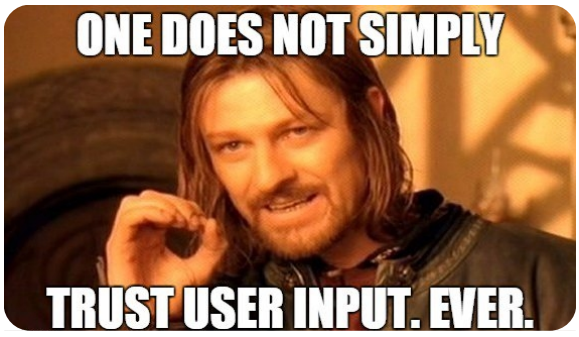
Complete the following snippet of code:

- ✓ that asks the user for a whole number ;
- ✓ and returns `<class 'int'>`.

Can you understand what `<class 'int'>` means?

Task 04

Write a program that extracts the first word of each sentences into a string, and then join them to make a new sentence. For instance, the input `This is a test. Is it possible to fly? Good things come to those who never give up.` should display `This Is Good.`



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