

# Silent Teacher (python)

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## About

Link - [https://silentteacher.toxicode.fr/hour\\_of\\_code.html?theme=basic\\_python](https://silentteacher.toxicode.fr/hour_of_code.html?theme=basic_python)

The purpose of this activity is to teach students the syntax, and process flow of the Python programming language. Students will learn about variables, expressions, Boolean expressions, types, and functions.

## Game Instructions

1. Go to the provide [Link](#) at the top of the page.
2. The students will need to click to start or press a key.
3. They will be given a series of questions they just have to answer them like this.

1 + 2



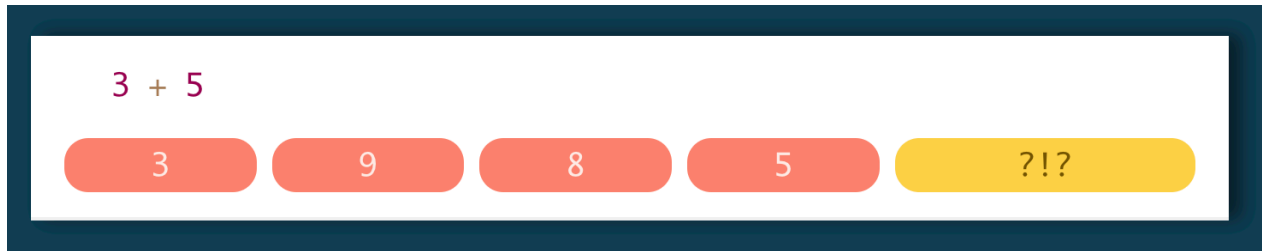
## Syntax

Here are some explanations of syntax you will find in Python:

- **\*** This is the multiplication operator. It will multiply two values.
- **=** This is the assignment operator. It will assign the value on the right-hand side to the variable on the left-hand side. The variable, or name of a memory location, will store that value.
- **'1'** The quotes indicate that this is a string value or a character. Strings can be built using the + operator.
- **function** This defines a function. A function will do a task and may return a value as a result. You will execute this code by typing the name of the function, while passing it the values the function listed in the parameter list inside the parentheses.
- **.length** This command returns the length of a string or list.

- `a[0]` This will return the value in the zero position of a list called a. The first position in a list is the zero position. The second position is `a[1]`.
- `a.indexOf('d')` This command will return the position in the list where the character 'd' is located. Remember that the first location in the list is 0.
- `==` or `===` This operation compares two values to determine if they are equal. If they are, it will result in the value of True, otherwise it will result in a value of False.
- `!=` This operation compares two values to determine if they are not equal. If two values are not equal, it will result in a value of True, otherwise it will result in a value of False.
- `if/else` If the comparison is true, then the statements after the if statement are executed. If the comparison is false, then the values after the else, if there is one, are executed.

## Tips



The `?!?` button will show you the correct answer if you are unsure of the answer.

## Example Questions

### Q1 String Adding

```
a = 'jr'
b = 'dj'
a + b
```



The result of this code is `'jrdj'`. When two strings are concatenated to each other.

## Q2 If Statements

```
a = 4  
if 4 < 2:  
    a = 6
```

a + 3

10	13	7	9	6
4	3	2	?!?	

The result of this code is 7.