

# Python



Lesson 3  
Input / variable type trans

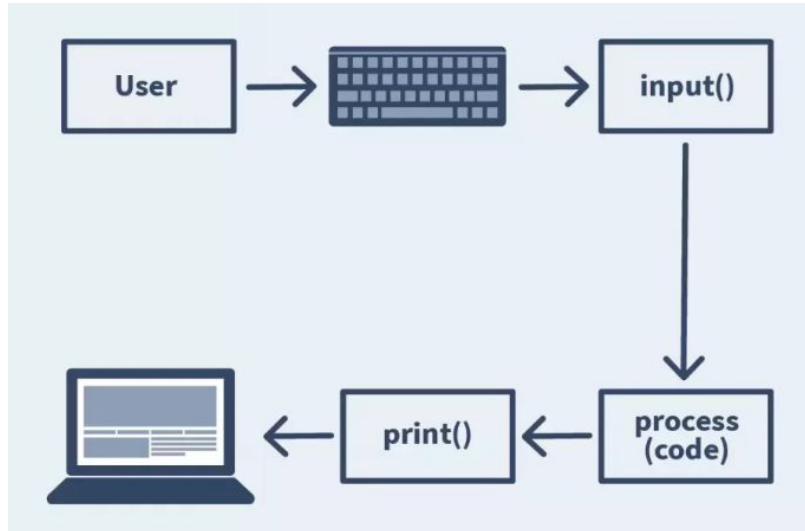
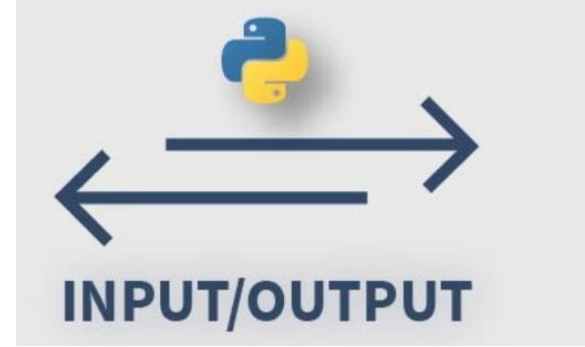
# Input and output



# input() function

input() function is used to receive input from the user

The input function takes in a prompt message as an argument



# input()

You want to tell python num1 is equal to 10. How?

```
num1 = input ()
```

*What you type from the keyboard will be stored as num1*



# Question

I want to tell python that I have two variables, num1=10, num2=20.  
How should I do?

```
Num1 = input()  
Num2 = input()
```



# Question

I want to tell python that I have one variable named num1. And also, I want to my program print out a greeting as “please give me the num1 value”.

What should I do?

Add your personalized greeting at here!  
Remember the quotation marks “”.

```
num1 = input (“please give me the num1 value”)
```



# The result of input() function

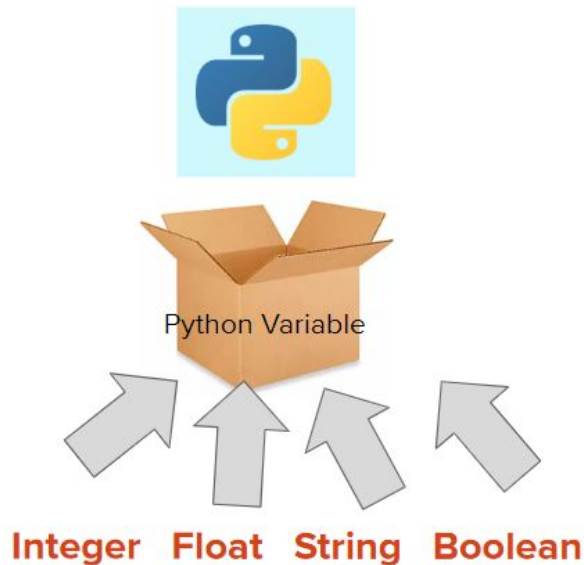
What you get from the input() function is a string variable.

Try it out:

```
num1 = input ('num1: ')
```

```
num2 = input ('num2: ')
```

```
print (num1+num2)
```



# Variable type casting

Variable type casting:

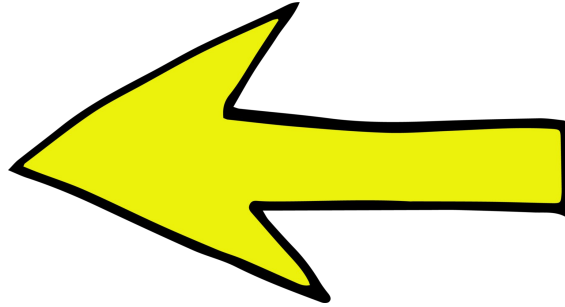
converting the data type of a variable from one type to another.



# Convert String to Integer - int() function

Integer

10



String

'10'

**int()** function can convert string variable to integer.

Here is the ***syntax*** and sample to use it:

```
num1 = int(num1)
```

**int()** can convert any type of variable into integer.

What other types  
of variables can  
be converted to an  
integer?

# Question

I want to tell python that I have two variables, num1=10, num2=20.

Both num1 and num2 should be numbers which means you need to cast them into Integer.

How should I do?

```
num1 = input()
num2 = input()
num1 = int(num1)
num2 = int(num2)
```



# Question

Reading the code, what are the expected results?

Code 1:

```
num1 = input('num1: ')
num2 = input('num2: ')
num1 = int(num1)
num2 = int(num2)
result = num1 + num2
print (result)
```

Code 2:

```
num1 = input('num1: ')
num2 = input('num2: ')
result = num1 + num2
print (result)
```



# What you learned

## 1. Input() function:

How to assign an input value to a variable;

How to add the greeting on the input prompt window

## 2. Variable type casting:

convert string type variable into integer

# Homework - 10 minutes video time



Make a subtraction calculator.

- Create a file, named it as “Sub\_cal”
- Create two variables: num1 and num2
- Assign a value to num1 with input() function; with a greeting message to let the user knows what they input is the value of num1.
- Assign a value to num2 with input() function with greeting.
- Print out the subtraction result

