

# Day 1

- Topics that we covered
- Questions from the team
  - What is the difference between using “from math import \*” and “math import”?
  - What is the difference input function between python 2.7.x and 3.x and which one to select?
  - Can I use + operator for string and int
- Assignments

## Topics that we covered

1. Python Editors
2. Difference b/w compiler and interpreter
3. How to get/use strings, string concatenation
4. How to get/use numbers
5. How to get/use booleans
6. Math library function

## Questions from the team

### What is the difference between using “from math import \*” and “math import”?

“math import” will import the math module. Any functions that you use would have to be used as math.sqrt, math.ceil, etc.

“from math import \*” will import all functions from math. Any functions that you use can be used as sqrt, ceil, etc.

Example 1:

```
import math
num = int(input("Enter a num"))
print(math.sqrt(num))
```

Result:  
Enter a num100  
10.0

Example 2:

```
from math import *
num = int(input("Enter a num: "))
print(sqrt(num))
```

Result:  
Enter a num: 100  
10.0

### What is the difference input function between python 2.7.x and 3.x and which one to select?

Please have a look this link [https://sebastianraschka.com/Articles/2014\\_python\\_2\\_3\\_key\\_diff.html](https://sebastianraschka.com/Articles/2014_python_2_3_key_diff.html)

## Can I use + operator for string and int

Yes, you can but don't mix them. The operands should be the same data type.

Example 3:

```
x = 10
y = 20
print(x + y)

Result: 30
```

Example 4:

```
a = "10"
b = "20"
print(a + b)

Result: 1020
```

Example 5:

```
x = 10
a = "10"
print(a + x)

Result:
print(a + x)
TypeError: can only concatenate str (not "int") to str
```

## Assignments

1. Write a small program to get two strings from user concatenate those strings.
2. Get two numbers from the user and add those two numbers and display the result.
3. Get two numbers from the user and find the max of two numbers.
4. Using math library write a program to find the power of two numbers. Use "import math" and "from math import \*\*" understand the differences