

-- BASIC PYTHON PROGRAMMING

```
In [1]: import sys
sys.version

Out[1]: '3.12.7 | packaged by Anaconda, Inc. | (main, Oct 4 2024, 13:17:27) [MSC v.1
929 64 bit (AMD64)]'
```

work with numbers

Arithmatic operators

```
In [2]: 3 #Numeric data types
Out[2]: 3
In [5]: 2
Out[5]: 2
In [2]: 3 + 2 #Addition
Out[2]: 5
In [6]: 3 - 2 #Substraction
Out[6]: 1
In [7]: 3 * 2 #Multiplication
Out[7]: 6
In [8]: 3 ** 2 #Exponential
Out[8]: 9
In [9]: 10 / 5 #Division
Out[9]: 2.0
In [10]: 10 // 5 #integer division / floor division
Out[10]: 2
```

The % "modulo" operator gives us the remainder after division.

```
In [4]: 100 % 2 # "100 mod 2", or the remainder when 100 is divided by 2
Out[4]: 0
```

Strings

```
In [11]: # work with string
```

Text is stored as a data type called a string. We can think of a string as a sequence of characters.

Actually they are a sequence of Unicode code points

We write strings as characters enclosed with either:

single quotes, e.g., 'Hello' double quotes, e.g., "Goodbye"

variable = object

```
In [7]: v = 5 #v - variable & 5 for value
v
```

In []: