

Basic Python Commands

REPL

Read

REPL

Read

Evaluate

REPL

Read

Evaluate

Print

REPL

Read

Evaluate

Print

Loop

REPL

Read

Evaluate

Print

Loop

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REPL

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Evaluate

Print

Loop

Read
↓
Evaluate

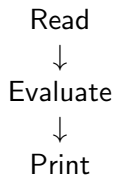
REPL

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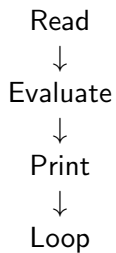
REPL

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Basic Numeric Commands

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>>>

Basic Numeric Commands

```
>>> 3
```

Basic Numeric Commands

```
>>> 3 +
```

Basic Numeric Commands

```
>>> 3 + 6
```

Basic Numeric Commands

```
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► Addition: +

Basic Numeric Commands

>>> 3 + 6

- ▶ Addition: +
- ▶ Subtraction: -

Basic Numeric Commands

>>> 3 + 6

- ▶ Addition: +
- ▶ Subtraction: -
- ▶ Multiplication: *

Basic Numeric Commands

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- ▶ Addition: +
- ▶ Subtraction: -
- ▶ Multiplication: *
- ▶ Division: /

Basic Numeric Commands

```
>>> 3 + 6
```

- ▶ Addition: +
- ▶ Subtraction: -
- ▶ Multiplication: *
- ▶ Division: /
- ▶ Exponentiation: **

Order of Operations

PEMDAS

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1. **P**arentheses (...) — evaluated inside-out

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2. **E**xponents ** — evaluated from right to left

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PEMDAS

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2. **E**xponents ** — evaluated from right to left
3. **M**ultiplication and **D**ivision: * and / — evaluated from left to right
4. **A**ddition and **S**ubtraction: + and - — evaluated from left to right

Concept Check!

Evaluate the following in the Python interpreter:

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1. $(4 + 3^2 - (5 + 6)) \bmod 2$

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1. $(4 + 3^2 - (5 + 6)) \bmod 2$

2. $\frac{2^{10+5}}{64}$

3. $((3.7^{2.5} \times \frac{6.7}{7.6}) // 2) \bmod 3$

Concept Check!

What will be the result for each of the following commands when run in the Python interpreter:

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    >>> y = 3.0
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3. >>> hi = "hello "
    >>> name = "Tyler"
    >>> msg = hi + name
    >>> msg
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   >>> x // y
```

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3. >>> hi = "hello "
   >>> name = "Tyler"
   >>> msg = hi + name
   >>> msg
```

```
4. >>> hi = "hello "
   >>> name = "Tyler"
   >>> hi + name + 5
```