Python

basics

Comments

Ctrl + /

```
# This is a single line comment
a = 10 # This is a partial line comment
     I I I
                                                             11 11 11
                                                        Give
Give
                       Docstrings
multiple
                                                        multiple
lines
                                                        lines
over
                                                        over
here
                                                        here
I = I
                                                         11 11 11
```

Constants & Variables

```
---- lowercase for variables
               lowercase for variables
----- cannot have keyword
  ----- can contain numbers
----- cannot start with number
                -- snake_case recommended
       ----- camelCase used for Class←
            ---- cannot have space
 ------ cannot have special characters
                 UPPERCASE for constants ←
             this is a convention, not a rule-
                  this is not enforced
```

Number Format

```
money = 1000000 underscores are always ignored money = 10_00_000 \leftarrow always ignored money = 1e6 \leftarrow Exponential notation
```

Operations

```
a // b
a % b
```

```
a > b
a > b
a ≤--b---
a = -b
a ≠--b-----=
a and b
a or b
not a
```

```
Parenthesis
  Exponent
    <u>M</u>ultiplication
       Division
         Addition
           Subtraction
Bracket
  <u>O</u>rder
    Division
      Multiplication
         Additon
           Subtraction
```

Print & Input

```
print()
print(a)
print(a, b, c, d, e)
print(a, b, sep="--")
print(a, b, end="--")
print(a + "rupees" + in + "name" + bank)
print(f"{a} rupees in {name} bank")
a = input("Enter a number: ")
```

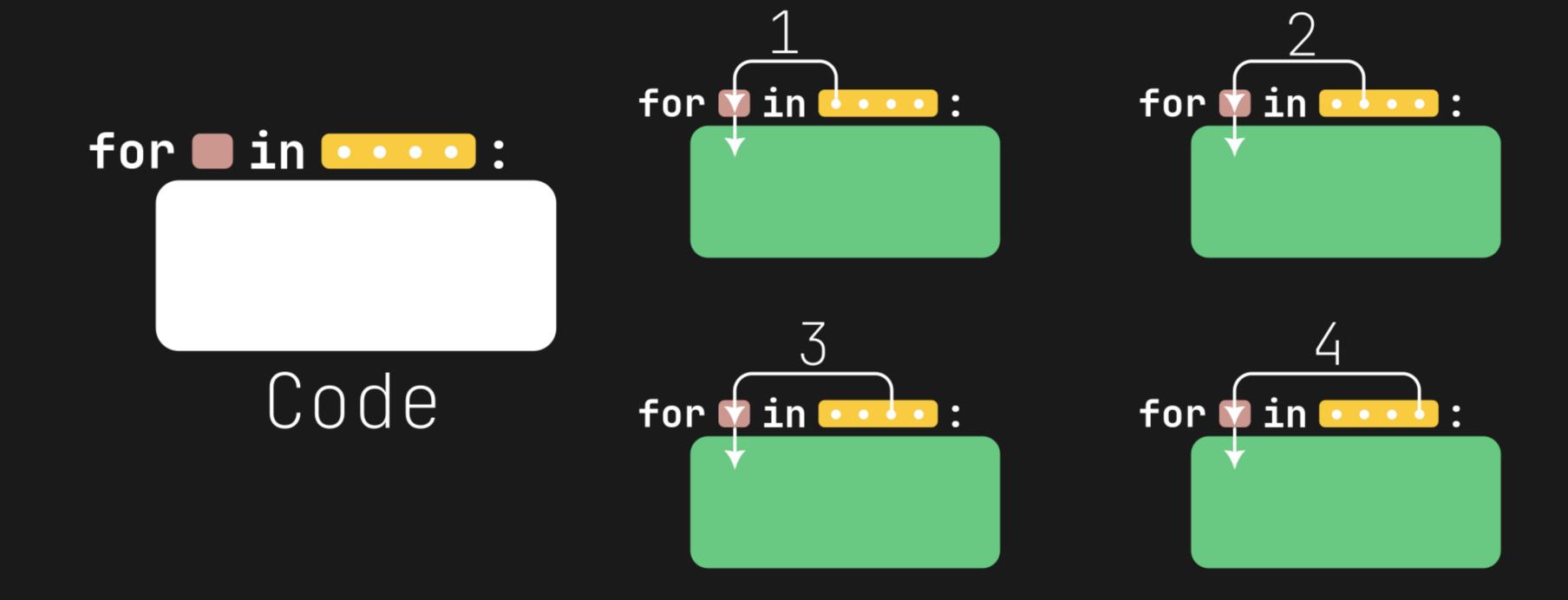
Datatypes

type()

Conditionals



FOR loop



WHILE loop



List <class 'list'>

```
car1 = "Audi"
car2 = "BMW"
car3 = "Mercedes"
car4 = "Porsche"
  cars = ["Audi", "BMW", "Mercedes", "Porsche"]
   Index-
```