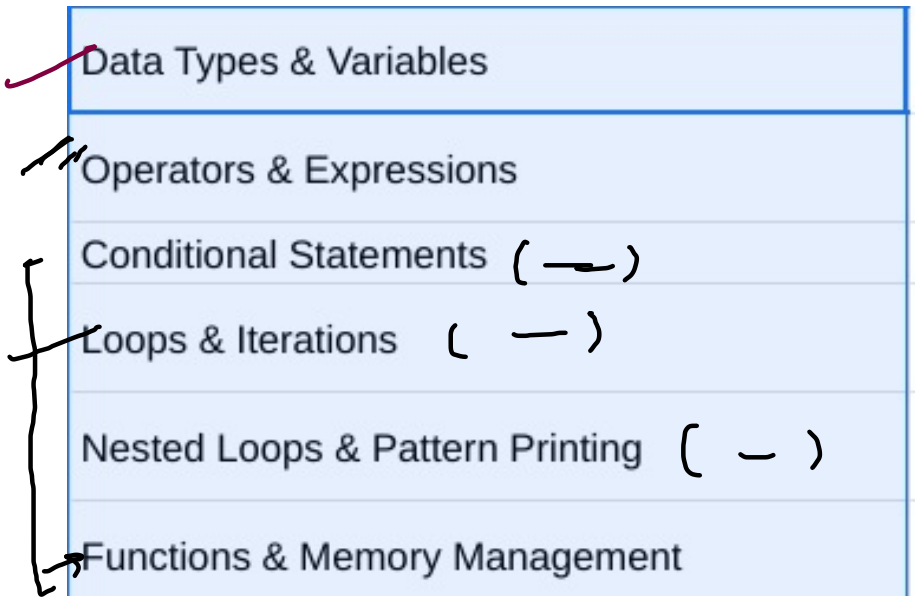
Revision Session

We will starts @ 9:10pm

Printing in Python

Comment

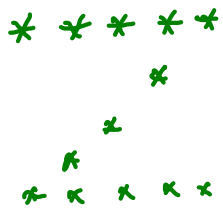


Printing in Python

print (" ——— ")

print (17)

Print the below pattern using print statement



⇒ 5 mins

↳ 9:18 - 9:24 pm

```
print("*****")
print("   *")
print("  *")
print(" *")
print("*****")
```

Comments in Python

↳ (a) Comments can be used to explain the code.

↳ (b) Comments can be used to make the code more readable.

Types of Comments

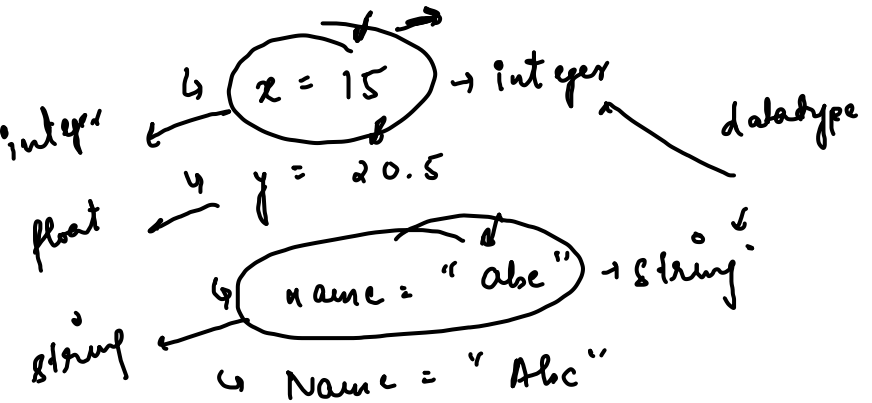
(1) Single line comment ("#")

(2) Multi line comment (""" """)

Variables and Datatypes

→ type function.

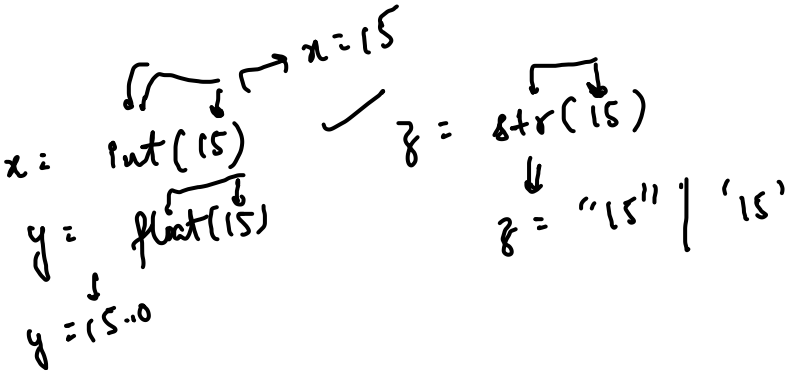
↳ Variables : containers to store data values.



Java → int x = 15

↓ print(type(x))

datatype.



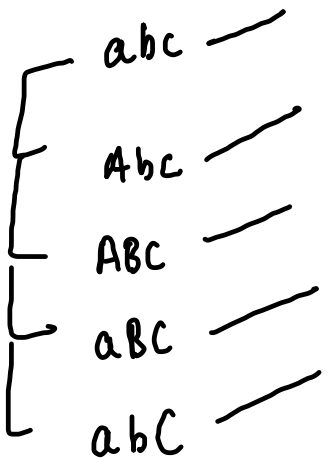

```
x = 15
y = 20.15
z = "Abc"
q = 'abc'

print(x)
print(y)
print(z)
print(q)

a = int(10)
b = float(10)
c = str(10)


print(type(x))
print(type(y))
print(type(z))
print(type(q))
```

↳ variable names in python are case-sensitive.



Rules for Python variables

↳ (a) A variable name cannot start with a number ✗ 1b✗

↳ (b) A variable name must start with a letter or underscore (_)

↳ (c) A variable name can contain only alpha numeric and underscore (A-Z, a-z, 0-9, _)

↳ (d) Variable names are case-sensitive (abc, Abc, ABC)

↳ (e) A variable name cannot be any Python keyword (for, while, print)✗

Assign Multiple values.

↳ a, b, c, d → 10

a = 10
b = 10
c = 10
d = 10

⇒ a = b = c = d = 10

↳ a, b, c = 10, 20, 30 ⇒ a = 10

b = 20

c = 30

What is a correct way to declare a Python variable?

- `var x = 5`
- `#x = 5`
- `$x = 5`
- `x = 5`

Str

True or False:

You can declare string variables with single or double quotes.

```
x = "John"
# is the same as
x = 'John'
```

- True
- False

True or False:

Variable names are not case-sensitive.

```
a = 5
# is the same as
A = 5
```

- ○ True
- ○ False

Select the correct functions to print the data type of a variable:

```
____(____(myvar))
```

typ | type | var | print | echo

Submit Answer »

1

- print (type (myvar))

alphanumeric.

Which is NOT a legal variable name?

- `my-var = 20`
- `my_var = 20`
- `Myvar = 20`
- `_myvar = 20`

What is a correct syntax to add the value 'Hello World', to 3 variables in one statement?

- `x, y, z = 'Hello World'`
- `x = y = z = 'Hello World'`
- `x|y|z = 'Hello World'`

Consider the following code:

```
a = 'Hello'
b = 'World'
print(a + b)
```

What will be the printed result?

- a + b
- Hello World
- HelloWorld

Consider the following code:

```
a = 4
b = 5
print(a + b)
```

What will be the printed result?

- 45
- 9
- 4 + 5

4+5=9

Operators

↳ are used to perform operations on variables or values.

```
print(10+5)
```

↳ **Types of operators in Python.**

(a) Arithmetic operators (used with numeric values to perform common mathematical operations)

(+, −, *, /, %, **, //)

% → remainder

10%3 = 1

$$3 \overline{)10} \quad 3 \quad \frac{9}{1}$$

/ → floating

// → integer

② Assignment Operator (=)

$x = 5$

$x = x + 5 \Rightarrow x += 5$ (shorthand)

$x = x - 5 \Rightarrow x -= 5$

1 % 4

4 | 1
0
1

③ Comparison Operator → (True / false)

↳ are used to compare values.

↳ == (equal to)

↳ != (not equal)

↳ > (Greater than)

↳ < (less than)

↳ >= (Greater than equal to)

↳ <= (less than equal to)

(4) Logical operators → true | false

↳ Ex:- To vote

↳ age >= 18 —

↳ voter id card —

↳ are used to combine conditional statements

↳ and, or, not

↳ and → true → when all the conditions are true.

↳ or → true → when any one condition is true

↳ not → reverse the result → true → false | false → true.

(1) Voter

↳ age >= 18

↳ voter id card → Y / N

(2) A given vehicle is a car

(1) age >= 18 and voter_id == 'Y'

(3) → s1, s2, s3 —

s1 ↓ optional

s2, s3 ↓ mandatory

(3) (s2 == "Pass" and s3 == "Pass")

(2) wheel == 4 and steering == 'Y'