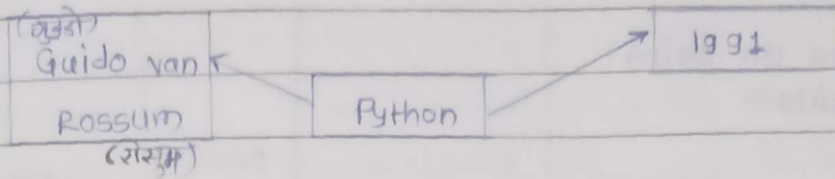


06/06/23



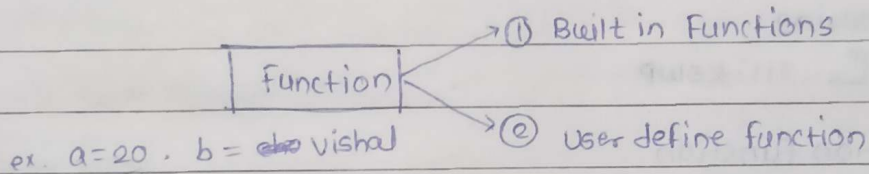
→ variables :-

variables are containers for storing data values.

ex.  $\text{car} = 20$   
       ↓  
       variable

# python is selftype Language. ex. they will find automatically any variable type like int, char, float, etc.   
 \*C++ are you not C++ , java is selftype language.

# Function: Is a block of code which only runs when it is called.



→  $\text{type}(a)$     →  $\text{type}(b)$   
 → int        → char

# complex number variable: It is combination of real number and Imaginary number.

ex.  $a = 8 + 5j$   
       ↑        ↑        ↑  
 variable    real number    Imaginary number.

Command to check number is complex or Imaginary.

→ ex.  $\text{sudh} = 5 + 8j$ →  $\text{type}(\text{sudh})$ 

↳ complex

Command :-

→  $\text{sudh}.\text{real}$ 

↳ 5

→  $\text{sudh}.\text{Imag}$ 

↳ 8.0

# print Function :-

→  $\text{Print}(\text{"my Name is Anil"})$ 

↳ my Name is Anil

shift + Tab → check the Function working.

# extracting data on string

→ `s = "pwwskills"`

→ `type(s)`

↳ char

→ `s = [0]` ↳ P

pwwskills

Forward Indexing

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| P | w | s | k | i | i | l | s |
|---|---|---|---|---|---|---|---|

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| P | w | s | k | i | i | l | s |
|---|---|---|---|---|---|---|---|

Backward Indexing

# Jumping in string

Way-1

`s[0:8:2]`

start point of string  
↓  
end point of string  
↳ Jump

↳ Psil

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| P | w | s | k | i | i | l | s |
|---|---|---|---|---|---|---|---|

-8 -7 -6 -5 -4 -3 -2 -1

Way-2

`s[::-2]`

→ `s[2::0]` ↳ slice step cannot be zero.

# print reverse string

Input  
↳ `s[::-1]` O/P  
↳ sllikswP

# String manipulation function

↳ `sl = "This is my string class"`

① → `len(sl)` ↳ 25

② → `sl.find('s')` ↳ 3 , → Find the first occurrence of the string.

③ → `sl.count('s')` ↳ 5

④ → `sl.upper()` ↳ THIS IS MY STRING CLASS

⑤ → `sl.lower()` ⑥ `sl.title()` ⑦ `sl.capitalize()`

# Comments in python

↳ single line  
#

↳ multiline comment ex. `""" """`

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