

HOW TO DOWNLOAD PYTHON-

Go to this link- <https://www.python.org/downloads/>

Download latest version of python and install it

Day 1-

Constants- Fixed values such as Numbers, letters and strings

You can use single quotes(') or double quotes (") for string constants

Variable- variable basically oka space where you can put your own value and call that whenever you want. It can be changed whenever you want

Assigning value to a variable-

```
Python 3.12 (64-bit)
Python 3.12.4 (tags/v3.12.4:8e8a4ba, Jun 6 2024, 19:30:16) [MSC v.1940 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> x="tauba tauba"
>>> print(x)
tauba tauba
>>>
```

We assigned tauba tauba to x

```
Python 3.12 (64-bit)
Python 3.12.4 (tags/v3.12.4:8e8a4ba, Jun 6 2024, 19:30:16) [MSC v.1940 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> x="tauba tauba"
>>> x="vicky's tauba tauba"
>>> print(x)
vicky's tauba tauba
>>>
```

You can also add two strings

```
>>> x="Katrina tauba tauba"
>>> y="vicky's tauba tauba"
>>> print(x+y)
Katrina tauba taubavicky's tauba tauba
>>> print(x+" "+y)
Katrina tauba tauba vicky's tauba tauba
>>>
```

You can also do addition, subtraction, multiplication and division of numbers-

```
Python 3.12 (64-bit)
Python 3.12.4 (tags/v3.12.4:8e8a4ba, Jun 6 2024, 19:30:16) [MSC v.1940 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> x=3
>>> y=5
>>> print((x+y),(x-y),(x*y),(x/y))
8 -2 15 0.6
>>>
```

Python is Case sensitive-

```
>>> x=5
>>> X=2
>>> print(x+X)
7
>>>
```

Successfully completed day 1! GOOD JOB

DAY2 PYTHON

Integers: Counting apples in a basket.

Floats: Measuring ingredients in a recipe (e.g., 1.5 cups of flour).

Strings: Writing a name or a sentence.

Booleans: Answering yes/no questions (e.g., Is the light on? True/False).

```
>>> x=1
>>> y=1.5
>>> z="chocolate"
>>> is_sweet= True
```

X is int

Y is float

Z is string

Is_sweet is Boolean

Conversion- INT to FLOAT-

```
>>> print(float(x))
1.0
```

Conversion- INT to STRING-

```
>>> print(str(x))
1
```

Conversion- STRING to Boolean

```
>>> print(bool(z))
True
>>>
```

True because z has “chocolate” saved if z was empty (z=”) then the value would return false

Conversion- Float to INT

```
>>> print(int(y))
1
>>>
```

Int datatype considers the value 1.5 as whole number 1

Congratulations GUYS DAY 2 completed.

DAY3 PYTHON

- Arithmetic operators
- Assignment operators
- Comparison operators
- Logical operators

Arithmetic operators

Operator	Name	Example
+	Addition	x + y
-	Subtraction	x - y
*	Multiplication	x * y
/	Division	x / y
%	Modulus	x % y
**	Exponentiation	x ** y
//	Floor division	x // y

```

>>> a = 10
>>> b = 3
>>>
>>> print("Addition:", a + b)
Addition: 13
>>> print("Subtraction:", a - b)
Subtraction: 7
>>> print("Multiplication:", a * b)
Multiplication: 30
>>> print("Division:", a / b)
Division: 3.3333333333333335
>>> print("Modulus:", a % b)
Modulus: 1
>>> print("Exponentiation:", a ** b)
Exponentiation: 1000
>>> print("Floor Division:", a // b)
Floor Division: 3
>>>

```

Assignment operators

Operator	Example	Same As
=	x = 5	x = 5
+=	x += 3	x = x + 3
-=	x -= 3	x = x - 3
*=	x *= 3	x = x * 3
/=	x /= 3	x = x / 3
%=	x %= 3	x = x % 3
//=	x //= 3	x = x // 3
**=	x **= 3	x = x ** 3
&=	x &= 3	x = x & 3
=	x = 3	x = x 3
^=	x ^= 3	x = x ^ 3
>>=	x >>= 3	x = x >> 3
<<=	x <<= 3	x = x << 3
:=	print(x := 3)	x = 3 print(x)

Comparison operators-

```

>>> a = 10
>>> b = 3
>>>
>>> print("Equal to:", a == b)
Equal to: False
>>> print("Not equal to:", a != b)
Not equal to: True
>>> print("Greater than:", a > b)
Greater than: True
>>> print("Less than:", a < b)
Less than: False
>>> print("Greater than or equal to:", a >= b)
Greater than or equal to: True
>>> print("Less than or equal to:", a <= b)
Less than or equal to: False
>>>

```

Operator	Name	Example
==	Equal	x == y
!=	Not equal	x != y
>	Greater than	x > y
<	Less than	x < y
>=	Greater than or equal to	x >= y
<=	Less than or equal to	x <= y

Logical operators

Operator	Description	Example
and	Returns True if both statements are true	x < 5 and x < 10
or	Returns True if one of the statements is true	x < 5 or x < 4
not	Reverse the result, returns False if the result is true	not(x < 5 and x < 10)

```

>>> biryani = 25
>>>
>>> if biryani < 30 and biryani > 20:
...     print("Let's eat biryani, it is " + str(biryani))
...
Let's eat biryani, it is 25
>>>

```

```
>>> biryani = 35
>>>
>>> if biryani < 20 or biryani > 30:
...     print("Biryani is not in the ideal price range, it is " + str(biryani))
...
Biryani is not in the ideal price range, it is 35
>>>
```

```
>>> biryani = 18
>>>
>>> if not (20 < biryani < 30):
...     print("Biryani is not in the ideal price range, it is " + str(biryani))
...
Biryani is not in the ideal price range, it is 18
>>>
```