TYPE CONVERSION AND CASTING

18 September 2020   15:37

TYPE CONVERSION:-

You can convert from one type to another with the `int()`, `float()`, and `complex()` methods:

Example:- 5/3=1.66=2

Convert from one type to another:

```
x = 1    # int
y = 2.8  # float
z = 1j   # complex


#convert from int to float:
a = float(x)


#convert from float to int:
b = int(y)


#convert from int to complex:
c = complex(x)


print(a)
print(b)
print(c)


print(type(a))
print(type(b))
print(type(c))
```

Python Casting:-

Specify a Variable Type:-

There may be times when you want to specify a type on to a variable. This can be done with casting. Python is an object-orientated language, and as such it uses classes to define data types, including its primitive types.

Casting in python is therefore done using constructor functions:

- `int()` - constructs an integer number from an integer literal, a float literal (by rounding down to the previous whole number), or a string literal (providing the string represents a whole number)

- `float()` - constructs a float number from an integer literal, a float literal or a string literal (providing the string represents a float or an integer)

- `str()` - constructs a string from a wide variety of data types, including strings, integer literals and float literals

EXAMPLE:-

Integers:

x = int(1)   # x will be 1

y = int(2.8) # y will be 2

z = int("3") # z will be 3

EXAMPLE:-

Floats:

x = float(1)   # x will be 1.0

y = float(2.8)   # y will be 2.8

z = float("3")   # z will be 3.0

w = float("4.2") # w will be 4.2
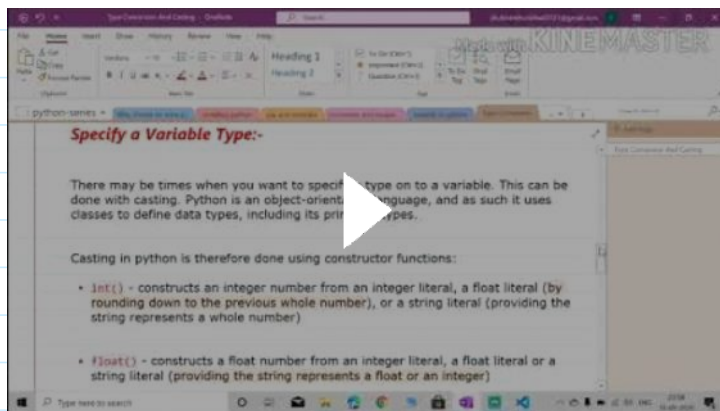
EXAMPLE:-

Strings:

```python
x = str("s1")  # x will be 's1'

y = str(2)     # y will be '2'

z = str(3.0)   # z will be '3.0'
```

Let's see what is type conversion and type casting.

metaeducators

I HOPE YOU WILL ENJOY THIS VIDEO,

IF YOU SHARE THIS VIDEO WITH YOU FRIENDS

THIS ENCOURAGE ME A LOT TO UPLOAD

A VIDEO VERY EFFICIENTLY & QUICKLY.

PLEASE SUBSCRIBE MY CHANNEL METAEDUCATORS

SHARE + LIKE +COMMENT