

Python Numbers

Number data types store numerical values. Python supports Integers, floating-point numbers, and complex numbers. They are defined as int, float, and complex classes.

- Integers can be of any length (Only limited by the memory available). They do not have a decimal point and can be positive or negative.
- A floating-point number is a number having a fractional part. The presence of a
 decimal point indicates a floating-point number. They have a precision of up to
 15 digits.
- 1 is an integer, 1.0 is a floating-point number.
- Complex numbers are of the form, x + yj, where x is the real part and y is the imaginary part.

We can use the type() function to know which class a variable or a value belongs to. Similarly, the isinstance() function is used to check if an object belongs to a particular class.

Here are a few examples:-

```
b = 5
print(b, "is of type", type(b))
b = 2.0
print(b, "is of type", type(b))
b = 1+2j
print(b, "is complex number?", isinstance(b,complex))
```

And we will get the output as:

```
5 is of type <class 'int'>
2.0 is of type <class 'float'>
1+2j is complex number? True
```