Modules in Python



Outlines

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- · Calendar Module

Modules

The whole idea of "reuse" applies to programming world as well. In python Modules is a way to reuse a code written by someone else. You can use module written by someone else for free in your code.

Math Module

```
In [22]: # how to use math module
import math
math.sqrt(36)

Out[22]: 6.0

In [23]: math.pow(2,3)

Out[23]: 8.0
```

Functions access in module

use this code dir(name of the function) or you can google it python math module

```
In [24]: dir(math)
Out[24]: ['__doc__',
              __loader__',
__name__',
__package__',
             __spec__',
            'acos',
            'acosh',
            'asin',
            'asinh',
            'atan',
            'atan2',
            'atanh',
            'ceil',
            'comb',
            'copysign',
            'cos',
            'cosh',
            'degrees',
            'dist',
            'e',
            'erf',
            'erfc',
            'exp',
            'expm1',
            'fabs',
            'factorial',
            'floor',
            'fmod',
            'frexp',
            'fsum',
            'gamma',
            'gcd',
            'hypot',
            'inf',
            'isclose',
            'isfinite',
            'isinf',
            'isnan',
            'isqrt',
            'ldexp',
            'lgamma',
            'log',
            'log10',
            'log1p',
            'log2',
            'modf',
            'nan',
            'perm',
            'pi',
            'pow',
            'prod',
            'radians',
            'remainder',
            'sin',
            'sinh',
            'sqrt',
            'tan',
```

```
'trunc']
In [25]: math.pi
Out[25]: 3.141592653589793
In [26]: math.log10(100)
Out[26]: 2.0
In [27]: math.floor(2.3)
Out[27]: 2
In [28]: math.ceil(2.3)
Out[28]: 3
        Calendar Module
```

'tanh', 'tau',

```
In [29]: import calendar
In [33]: | cal = calendar.month(2016,1)
         print(cal)
             January 2016
         Mo Tu We Th Fr Sa Su
                      1 2 3
          4 5 6 7 8 9 10
         11 12 13 14 15 16 17
         18 19 20 21 22 23 24
         25 26 27 28 29 30 31
In [32]: | calendar.isleap(2016)
Out[32]: True
In [36]: calendar.isleap(2014)
Out[36]: False
```

you can access all the calendar modules by this code: dir(calendar)

Find list of all the python Modules by Google: type Python 3 module list. the first will give the answer.

> Date **Author**

Date Author

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