

17th March, 2023.

Methods

Class methods @classmethod

They are methods used in classes, where they represent the class as a whole and not just an instance. They have their first argument as "cls" and the syntax is @classmethod. One does not need to define any instance, unlike the others which have their first argument as "self"

Static methods

• Utility fxn. They have no "cls" or "self" as arguments. Defined like normal fns.

→ Class method: defined before method definition

```
3 class Calculator:
4     @classmethod
5     def add(cls, a, b):
6         return a + b
7
8     @classmethod
9     def subtract(cls, a, b):
10        return a - b
11
12    @classmethod
13    def multiply(cls, a, b):
14        return a * b
15
16    @staticmethod
17    def divide(a, b):
18        return a/b
19
20 # Create an instance of the Calculator class with initial values
21 calc = Calculator()
22
23 # Use the class methods and static method to perform calculations
24 result1 = calc.add(5, 10)
25 result2 = calc.subtract(20, 5)
26 result3 = Calculator.multiply(3, 7)
27 result4 = Calculator.divide(2, 4)
28
29
30 # Print the results
31 print("Result 1:", result1)
32 print("Result 2:", result2)
33 print("Result 3:", result3)
34 print("Result 4 :", result4)
```

✓ 0.0s

fxn method

Method 2

Method 3

class name

name

input parameter

static method

method 3

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