

## Python Advance Assignment\_4

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Q1. Which two operator overloading methods can you use in your classes to support iteration?

Answer- Two operator overloading is as follows (1) `__len__` (2) `__str__`

Q2. In what contexts do the two operator overloading methods manage printing?

Answer - Python manages operator overloading with their special method defined which is also called magic methods. For example add '+' operator is able to do both concatenation and addition because special method involve with + is `__add__`.

Q3. In a class, how do you intercept slice operations?

Answer - The `__getitem__` method return a portion of iterable as an object of slice class based on the specified range,. It can be used with string, list, tuple, set, bytes, or range objects or custom class object that implements sequence methods like `__getitem__` and `__len__`.

Q4. In a class, how do you capture in-place addition?

Answer --> For in place we use operator module. Where we can use `operator.iadd(a,b)`

Q.5 When is it appropriate to use operator overloading?

Answer --> Operator overloading is useful when we are using a class which is falling inside the existing Abstract class.