

```

In [1]: # Encapsulation: By using Encapsulation we can hide the data.
# Or
# Process of hiding or adding some restrictions on accessing the methods
# properties from outside of the class.
# Or
# Access Modifiers or Access specifiers
# Or Public, Protected, Private
# OOP's
# class, object and Encapsulation - (Access Modifiers or Access specifiers)
# We can able to class private method or variable by
# obj._classname<method/variable>
class Test:
    a = 10 # public
    _b = 20 # protected
    __c = 30 # private --> you unable to access we will get AttributeError

    def show(self): # public
        print("I am in show method")

    def _display(self): # protected
        print("I am in _display method")

    def __pprint(self):
        # private --> you unable to access we will get AttributeError
        print("I am in __pprint method")

    def local_test(self):
        # we unable to access __pprint from outside but we
        # can able access in the class
        self.__pprint()
        print(self.__c)

# We can able to call above private method/variable with the following
# obj._Test__c
# obj._Test__pprint()

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In [2]: obj = Test()
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In [3]: obj.a
```

```
Out[3]: 10
```

```
In [4]: obj._b
```

```
Out[4]: 20
```

```
In [5]: obj.__c
```

```

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AttributeError                                Traceback (most recent call last)
<ipython-input-5-341a55e8b259> in <module>
----> 1 obj.__c

AttributeError: 'Test' object has no attribute '__c'

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In [6]: `obj.show()`

I am in show method

In [7]: `obj._display()`

I am in _display method

In [8]: `obj.__pprint()`

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AttributeError                                Traceback (most recent call last)
```

```
<ipython-input-8-b611a9af6f81> in <module>  
----> 1 obj.__pprint()
```

```
AttributeError: 'Test' object has no attribute '__pprint'
```

In [9]: `obj.local_test()`

I am in __pprint method
30

In [10]: `obj._Test__c`

Out[10]: 30

In [11]: `obj._Test__pprint()`

I am in __pprint method

In []: