



# OOPs Part - 4

1. Abstract Method
2. Abstract class
3. Interface
4. Public, Private and Protected Members
5. `__str__()` method
6. Difference between `str()` and `repr()` functions
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## Abstract Method:

Sometimes we don't know about implementation, still we can declare a method. Such type of methods are called abstract methods. i.e. abstract method has only declaration but not implementation.

In python we can declare abstract method by using `@abstractmethod` decorator as follows.

```
@abstractmethod
def m1(self): pass
```

`@abstractmethod` decorator present in `abc` module. Hence compulsory we should import `abc` module, otherwise we will get error.

`abc` ==> abstract base class module

```
1) class Test:
2)     @abstractmethod
3)     def m1(self):
4)         pass
```

NameError: name 'abstractmethod' is not defined

Eg:

```
1) from abc import *
2) class Test:
3)     @abstractmethod
4)     def m1(self):
5)         pass
```