Class Inheritance

Instead of starting from scratch, you can create a class by deriving it from a preexisting class by listing the parent class in parentheses after the new class name.

The child class inherits the attributes of its parent class, and you can use those attributes as if they were defined in the child class. A child class can also override data members and methods from the parent.

Syntax

Derived classes are declared much like their parent class; however, a list of base classes to inherit from is given after the class name:

```
class SubClassName (ParentClass1[, ParentClass2, ...]):

    'Optional class documentation string'

    class_suite
```

Example

```
#!/usr/bin/python


class Parent:        # define parent class

    parentAttr = 100

    def __init__(self):

        print "Calling parent constructor"


    def parentMethod(self):

        print 'Calling parent method'


    def setAttr(self, attr):

        Parent.parentAttr = attr


    def getAttr(self):

        print "Parent attribute :", Parent.parentAttr
```