

```
"""
Inheritance: parent +child relationship
Types:
- Single/Simple
- Multilevel
- Multiple
- Hybrid
- Hierarchical
-----
Multiple inheritance: means more than one parent
"""
```

```
class A:
    def m1(self):
        print('m1 of A')
class B:
    def m1(self):
        print('m1 of B')
class C:
    pass
class Child(C,B,A):
    pass
ob =Child()
ob.m1()
```

m1 of B

```
# i need to findout hierarchy of method to be searched in class
# use
# MRO: Method resolution order
```

```
class A:
    def m1(self):
        print('m1 of A')
class B:
    def m1(self):
        print('m1 of B')
class C:
    pass
class Child(C,B,A):
    pass
ob =Child()
#print(Child.__mro__)
print(Child.mro())
```

```
[<class '__main__.Child'>, <class '__main__.C'>, <class '__main__.B'>, <class '__main__
```

```
print(type([]))
```

```
<class 'list'>
```

```
# A starting point of each class is always object class
help('builtins')
```

Help on built-in module builtins:

NAME

builtins - Built-in functions, exceptions, and other objects.

DESCRIPTION

Noteworthy: None is the `nil' object; Ellipsis represents `...' in slices.

CLASSES

object

    BaseException

        Exception

            ArithmeticError

                FloatingPointError

                OverflowError

                ZeroDivisionError

            AssertionError

            AttributeError

            BufferError

            EOFError

            ImportError

                ModuleNotFoundError

            LookupError

                IndexError

                KeyError

            MemoryError

            NameError

                UnboundLocalError

            OSError

                BlockingIOError

                ChildProcessError

                ConnectionError

                    BrokenPipeError

                    ConnectionAbortedError

                    ConnectionRefusedError

                    ConnectionResetError

                FileExistsError

                FileNotFoundError

                InterruptedError

                IsADirectoryError

                NotADirectoryError

                PermissionError

                ProcessLookupError

                TimeoutError

            ReferenceError

            RuntimeError

                NotImplementedError

                RecursionError

            StopAsyncIteration

            StopIteration

            SyntaxError

```
IndentationError
TabError
SystemError
TypeError
ValueError
UnicodeError
```

```
class View:
    pass
class AuthView(View):
    pass
class FormView(View):
    pass
class AuthFormView(AuthView,FormView):
    pass
# check MRO
print(AuthFormView.mro())

in__main__.AuthView', <class '__main__.FormView'>, <class '__main__.View'>, <class 'object'>]
```

```
class X:
    pass
class Y:
    pass
class Z:
    pass
class A(X,Y):
    pass
class B(Y,Z):
    pass
class M(B,A,Z):
    pass
print(M.mro())

A', <class '__main__.X'>, <class '__main__.Y'>, <class '__main__.Z'>, <class 'object'>]
```

```
class A:
    pass
class B(A):
    pass
class M(B,A):
    pass
print(M.mro())

ss '__main__.M', <class '__main__.B'>, <class '__main__.A'>, <class '__main__.A'>, <cla
```

```
class A:
```

```
pass
class B(A):
    pass
class C(B,A):
    pass
class Start(C,B):
    pass
print(Start.mro())
```

`_main__.Start'>, <class '__main__.C'>, <class '__main__.B'>, <class '__main__.A'>, <class`



```
class A:
    pass
class B(A):
    pass
class C(B,A):
    pass
class Start(C,A):
    pass
print(Start.mro())
```

`_main__.Start'>, <class '__main__.C'>, <class '__main__.B'>, <class '__main__.A'>, <class`



```
class A:
    pass
class B(A,C):
    pass
class C(B,A):
    pass
class Start(B,A):
    pass
print(Start.mro())
```

`[<class '__main__.Start'>, <class '__main__.B'>, <class '__main__.A'>, <class '__main__`



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