super()

super() function returns proxy object super() function is used to give access to methods and properties of a parent class

Syntax: super()
Parameters: No

```
# super function calls parent constructor
class Parent: # Is subclassed by: Child
    def __init__(self): # Is overridden in: Child
        print("Parent constructor")

class Child(Parent):
    def __init__(self):
        super().__init__()
        print("Child Constructor")

c = Child()

Parent constructor
Child Constructor
```

```
# super function calls parent constructor
class Parent: # Is subclassed by: Child
  def __init__(self, id, name): # Is overridden in: Child
    print("Parent constructor")
    self.id = id
    self.name = name
  def display(self):
    print(self.id, self.name)
class Child(Parent):
  def __init__(self):
    super().__init__(101, "Admin")
    print("Child Constructor")
c = Child()
c.display()
print(Child. mro )
Parent constructor
Child Constructor
101 Admin
(<class '__main__.Child'>, <class '__main__.Parent'>, <class 'object'>)
```

MRO

Method Resolution Order (MRO) is the order in which methods should be inherited in the presence of multiple inheritance

A method in the derived calls is always called before the method of the base class.

```
# super function calls parent constructor
class GrandParent: # Is subclassed by: Child
  def init (self, id, name): # Is overridden in: Child
    print("Grand Parent Constructor", id, name)
class Parent(): # Is subclassed by: Child
  def init (self, id, name): # Is overridden in: Child
    print("Parent Constructor", id, name)
class Child(GrandParent, Parent):
  def init (self):
    print("Child Constructor")
    # super(). init (101, "Admin"), Invokes only grandparent constructor
    GrandParent. init (self, 101, "NameOne")
    Parent.__init_ (self, 102, "NameTwo")
c = Child()
print(Child. mro )
Child Constructor
Grand Parent Constructor 101 NameOne
Parent Constructor 102 NameTwo
(<class '__main__.Child'>, <class '__main__.GrandParent'>, <class
' main .Parent'>, <class 'object'>)
```