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- description : (,)
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- lastupdate : 2020-06-25

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# Section07-2
#
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# 1
#
# -> , 가

class Car:
    """Parent Class"""
    def __init__(self, tp, color):
        self.type = tp
        self.color = color

    def show(self):
        # print('Car Class "Show" Method!')
        return 'Car Class "Show" Method!'

class BmwCar(Car):
    """Sub Class"""

    def __init__(self, car_name, tp, color):
        super().__init__(tp, color) # super()
        self.car_name = car_name

    def show_model(self) -> None: # -> None
        return 'Your Car Name : %s' % self.car_name

class BenzCar(Car):
    """Sub Class"""

    def __init__(self, car_name, tp, color):

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    super().__init__(tp, color)
    self.car_name = car_name

def show(self):
    super().show()
    return 'Car Info : %s %s %s' % (self.car_name, self.color, self.type)

def show_model(self) -> None:
    return 'Your Car Name : %s' % self.car_name

#
print("#====          =====")
modell = BmwCar('520d', 'sedan', 'red')

print(modell.color) # Super
print(modell.type) # Super
print(modell.car_name) # Sub
print(modell.show()) # Super
print(modell.show_model()) # Sub
print()
# Method Overriding
print("#==== Method Overriding =====")
model2 = BenzCar("220d", 'suv', 'black')
print(model2.show())
#
#
print()

# Parent Method Call
print("#==== Parent Method Call =====")
model3 = BenzCar("350s", 'sedan', 'silver')
print(model3.show())
print()
# Inheritance Info
print("#==== Inheritance Info =====")
print('Inheritance Info : ', BmwCar.mro())
print('Inheritance Info : ', BenzCar.mro())
print()

#
#
print("#====          =====")
class X():
    pass

class Y():
    pass

class Z():
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    pass

class A(X, Y):
    pass

class B(Y, Z):
    pass

class M(B, A, Z):
    pass

# .mro() ->          List
print(M.mro())
print(A.mro())

```

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#====          =====
red
sedan
520d
Car Class "Show" Method!
Your Car Name : 520d

#==== Method Overriding =====
Car Info : 220d black suv

#==== Parent Method Call =====
Car Info : 350s silver sedan

#==== Inheritance Info =====
Inheritance Info : [<class '__main__.BmwCar'>, <class '__main__.Car'>,
<class 'object'>]
Inheritance Info : [<class '__main__.BenzCar'>, <class '__main__.Car'>,
<class 'object'>]

#====          =====
[<class '__main__.M'>, <class '__main__.B'>, <class '__main__.A'>, <class
 '__main__.X'>, <class '__main__.Y'>, <class '__main__.Z'>, <class 'object'>]
[<class '__main__.A'>, <class '__main__.X'>, <class '__main__.Y'>, <class
 'object'>]

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Tip

, [python](#), ,

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