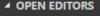
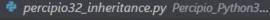


EXPLORER





▲ PYTHON



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- ▶ Automate-Boring-Stuff
- my_code
- ▲ Percipio_Python3-Course
- ▶ 01_Start
- 02_Data-Sequence Types
- ▶ 03_Collections-Mapping-Looping
- ▶ 04_Modules-Functions
- 05_Classes
- percipio27_classes_and_types.py
- percipio28_class_defination.py
- percipio29_class_initialization.py
- percipio30_class_instance_methods.py
- percipio31_static_methods.py
- percipio32_inheritance.py
- percipio33_properties.py
- percipio34_properties_with_inheritance.py
- percipio35_operator_overloading.py
- ▶ 06_Working-with-Files
- ▶ 07_Comprehensions
- ▶ 08_Iterables-and-Generators
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- Python Projects_2014
- **2018-07-23-2.zip**
- CMD_Python_Set-Path.txt
- Python_Basics.txt
- Python_Clear-Window-Command.txt
- python_exercises_00.py
- python_exercises_01.py
- Python_Tutorial_Running-Scripts.docx
- Python_Tutorials.md

```
percipio32_inheritance.py X
       # percipio32 inheritance.py
      # Percipio video: Classes; Inheritance
      # Demonstrate how inheritance works in Python classes
      nl = '\n'
      print(nl, 'Base Model')
      class Base Model(): # create a class called 'Base Model'
           # represent base model of a car
           trim = 'normal' # Base Model trim
           engine liters = 1.5 # Base Model engine size
          def engine sound(self): #
               return 'putt, putt' # Base Model engine sound
           def horn sound(self): #
               return 'beep, beep' # Base Model Horn sound
           def __str__(self): # special method used to print the instance of this class
               return 'Base Model' # Base Model
       coop = Base Model() # creates an instance of the Base Model class
      print('%s has %s trim level.' % (coop, coop.trim)) # the 1st '%s' is the string of the instance,
      print('%s has a %s liter engine.' % (coop, coop.engine_liters)) #
      print('%s engine sounds like %s.' % (coop, coop.engine sound())) #
      print('%s horn sounds like %s.' % (coop, coop.horn sound())) #
      print('Sport Model')
      # Notice the next Sport Model class has Base Model in it's parentheses so it automatically
       inherits all of the attributes of the Base Model
       class Sport Model(Base Model): #
           engine liters = 2.0 # this overrides Base Model engine liters but trim is herited since it is
           not here
           def engine sound(self): #
               return 'VROOM, VROOM' #
           def horn sound(self): #
```

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□ …

class Luxury Sport Model(Luxury Model, Sport_Model): #

coop luxury sport = Luxury Sport Model() # creating an instance

print('%s has %s trim level.' % (coop luxury sport, coop luxury sport.trim)) #

print('%s has a %s liter engine.' % (coop_luxury_sport, coop_luxury_sport.engine_liters)) #
print('%s engine sounds like %s.' % (coop_luxury_sport, coop_luxury_sport.engine_sound())) #
print('%s horn sounds like %s.' % (coop_luxury_sport, coop_luxury_sport.horn sound())) #

return 'Luxury Sport Model' # Only thing overridden by this 'Luxury Sport Model' class is

def str (self): #

print(nl, 'Sport Luxury Model')

of this class prints.

■ CMD_Python_Set-Path.txt

python_exercises_00.py

python_exercises_01.py

Python_Tutorials.md

Python_Clear-Window-Command.txt

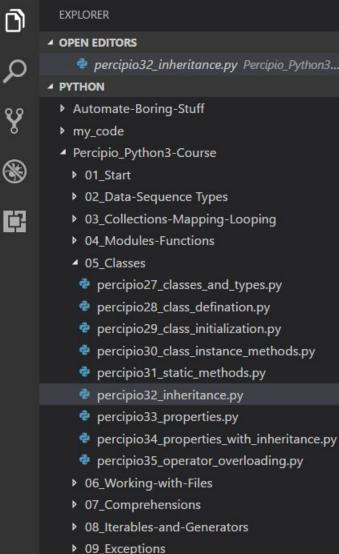
Python_Tutorial_Running-Scripts.docx

■ Python_Basics.txt

Base Model horn sounds like beep, beep.

Sport Model





Python Projects_2014

■ Python_Basics.txt

≡ CMD_Python_Set-Path.txt

python_exercises_00.py

python_exercises_01.py

Python_Tutorials.md

Python_Clear-Window-Command.txt Python_Tutorial_Running-Scripts.docx

```
RESULT:
========= RESTART: C:/Python36x64/test.py =================
Base Model
Base Model has normal trim level.
Base Model has a 1.5 liter engine.
Base Model engine sounds like putt, putt.
Base Model horn sounds like beep, beep.
 Sport Model
Sport Model has normal trim level.
Sport Model has a 2.0 liter engine.
Sport Model engine sounds like VROOM, VROOM.
Sport Model horn sounds like BEEP, BEEP.
Luxury Sport Model
Luxury Sport Model has luxury trim level.
Luxury Sport Model has a 2.0 liter engine.
Luxury Sport Model engine sounds like vroom, vroom.
Luxury Sport Model horn sounds like honk, honk.
 Sport Luxury Model
Sport Luxury Model has luxury trim level.
Sport Luxury Model has a 2.0 liter engine.
Sport Luxury Model engine sounds like VROOM, VROOM.
Sport Luxury Model horn sounds like BEEP, BEEP.
 Custom Models
Sport Luxury Model has luxury trim level.
Sport Luxury Model now has custom trim level.
The class <class ' main .Sport Luxury Model'> still has luxury trim level.
Sport Luxury Model has racing brakes.
<class ' main .Sport Luxury Model'> has standard brakes.
```



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