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EXPLORER
                            User Settings
                                             percipio06_math_functions.py X
A OPEN EDITORS
                                    percipio06 math functions.py
   User Settings C:\Users\pcurti...
                                    Percipio video: Data & Sequence Types
   percipio06_math_functions....
                                   Most useful math module functions

▲ PYTHON
 ▶ Automate-Boring-Stuff
 ▶ my_code
                                   x,y = 5.0, 10
                                    print('x =', x, 'x type is: ', type(x))
 ▲ Percipio_Python3-Course
  ▶ 01_Start
                                    print('y =', y, 'y type is: ', type(y))
                                    import math
  ■ 02_Data-Sequence Types
                                    # math module provides two constants
   percipio04_int_types.py
   percipio05_float_type.py
                                    pi = math.pi # 3.14
                                    e = math.e # WHAT IS e?
   percipio06_math_functions....
                              12
                                    print('Value of Pi is: ', pi) #
   percipio07_boolean_type.py
                                    print('The rounded value of Pi is: ', round(pi, 4)) #
   percipio08_Strings.py
                                    # The float class allows creation of special numbers
   percipio09_float_type.py
                                    pos_inf = float('inf') # infinity
   percipio10_bytes_type.py
                                    neg inf = float('-inf') # negative infinity
   percipio11_bytearray_type.py
   percipio12_list_type.py
                                   not a num = float('nan') # not a number
                                    # The math module provides functions to detect these numbers
   percipio13_tuple_type.py
                                    print('math.isinf(pos_inf) = ', math.isinf(pos_inf)) # detect positive infinity
   percipio14_slice_type.py
                                    print('math.isinf(neg_inf) = ', math.isinf(neg_inf)) # detect negative infinity
   percipio14a_list_copy_boole...
                                    print('math.isnan(not_a_num) = ', math.isnan(not_a_num)) # detect_not-a-number
  ▶ 03_Collections-Mapping-Loo...
  ▶ 04 Modules-Functions
                                    # Beware these special numbers propagate with errors
                                    print('pos_inf * x = ', pos_inf * x) # results in positive infinity
  ▶ 05 Classes
                                    print('neg_inf / y = ', neg_inf / y) # results in negative infinity
  ▶ 06_Working-with-Files
                                    print('pos_inf + neg_inf = ', pos_inf + neg_inf) # yeilds not-a-number
  ▶ 07 Comprehensions
                                    print('not_a_num - y = ', not_a_num - y) # any operation with nan generally results in nan
  ▶ 08 Iterables-and-Generators
                                    # A nan value is never equal to another nan value, even itself
  ▶ 09_Exceptions
                                    print('not_a_num == not_a_num = ', not_a_num == not_a_num) # results false
 Python Projects_2014
                                    # The math module provides many other functions
 print('math.factorial (5) =', math.factorial(5)) # shows number theory

■ Python_Basics.txt

                                    # Logarithmic and power functions

■ Python_Clear-Window-Comman...

                                    print('math.log(x) = ', math.log(x)) #
python_exercises_00.py
                                    print('math.log10 (x) = ', math.log10 (x)) #
python_exercises_01.py
                                    print('math.exp(x) = ', math.exp(x)) #
Python_Tutorial_Running-Script...
                                    print('math.pow(x, x) = ', math.pow(x, x)) # power of
 Python_Tutorials.md
                                    print('math.sqrt(25) = ', math.sqrt(25)) # squareroot
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