The following series of scripts is written to demonstrate the use of Python Numeric and Mathematical Modules. Written below is a description of its classes.

numbers — Numeric abstract base classes.

The numbers module (PEP 3141) defines a hierarchy of numeric abstract base classes which progressively define more operations. None of the types defined in this module can be instantiated.

math — Mathematical functions.

This module is always available. It provides access to the mathematical functions defined by the C standard.

cmath — Mathematical functions for complex numbers.

This module is always available. It provides access to mathematical functions for complex numbers. The functions in this module accept integers, floating-point numbers or complex numbers as arguments.

decimal — Decimal fixed point and floating point arithmetic.

The decimal module provides support for fast correctly-rounded decimal floating point arithmetic. It offers several advantages over the float datatype:

random — Generate pseudo-random numbers

This module implements pseudo-random number generators for various distributions.

statistics — Mathematical statistics functions.

This module provides functions for calculating mathematical statistics of numeric (Real-valued) data.

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