- printEvaluates each expression in turn and writes the resulting object to standard output. If an object is not a string, it is converted to a string. A space is written before each object, unless the system believes it is positioned at the beginning of a file (certain rules apply). A '\n' character is written at the end, unless the statement ends with a comma.
- # comment
- +,-,/,* Yields the sum. differenct, quotient, or product of the arguments.
- Yields the remainder from the division of the first argument by the second. The numeric arguments are first converted to a common type. A zero right argument raises the ZeroDivisionError exception. The arguments may be floating point numbers, e.g., 3.14%0.7 equals 0.34 (since 3.14 equals 4*0.7 + 0.34.) The modulo operator always yields a result with the same sign as its second operand (or zero); the absolute value of the result is strictly smaller than the absolute value of the second operand [2].

comparisons (<, >, <=, >=, !=, ==, in, is, is not)

Compare the value of two objects. Need not be the same type. All comparisons have the same priority; yield boolean values (True, False); can be chained arbitrarily (and end once a False event is determined). "is/not" test for object identity - return true only if x and y are the same object.

- target = expression Assignment statement. (Re) binds names to values and modifies attributes or items of mutable objects. Evaluates the expression list and assigns the returned value to the target.
- % (string and Unicode objects) String formatting/interpolation operator. Given "format" % "values", % conversion specifications are replaced with zero or more elements of values. Common conversion types are: d (int), f (float), r (string, converts any python object using repr()), s (string, converts any python object using srt())
- round(number[, ndigits]) Return the floating
 point value number rounded to ndigits

digits after the decimal point. If ndigits is omitted, it defaults to zero. The result is a floating point number. Values are rounded to the closest multiple of 10 to the power minus ndigits; if two multiples are equally close, rounding is done away from 0 (so. for example, round(0.5) is 1.0 and round(-0.5) is -1.0).

- "x" + "y" Concatenates two sequences of the same type, in this case strings.
- "x" * 10 When used with a sequence and an integer, sequence repetition is performed.
- \n escape character for ASCII Linefeed (newline)
- """ **or** ''' triple-quoted string literal
- escape characters "\" followed by any ASCII character. Common ones: \a (ASCII bell); \b (ASCII backspace); \t (tab); \' or \" (single or double quotes); \n (newline)
- "" **or** '' string literal designators
- raw_input([prompt]) If the prompt argument is present, it is written to standard output without a trailing newline. The function then reads a line from input, converts it to a string (stripping a trailing newline), and returns that.

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- int(x) Convert a number or string "x" to an integer, or return "0" if no arguments are given. If "x" is floating point, conversion truncates toward zero. Special rules for string and Unicode objects.
- sys system module
- The list of command line arguments passed to a Python script. argv[0] is the script name (it is operating system dependent whether this is a full pathname or not). If the command was executed using the -c command line option to the interpreter, argv[0] is set to the string '-c'. If no script name was passed to the Python interpreter, argv[0] is the empty string.

- var1, var2, var3 = argv unpacks the argv[] list
- open(name[, mode[, buffering]]) Open a file, returning an object of the file type described in doc section "File Objects." If the file cannot be opened, IOError is raised.
- file.read([size]) Read at most size bytes from the file (less if the read hits EOF before obtaining size bytes). If the size argument is negative or omitted, read all data until EOF is reached. The bytes are returned as a string object.
- **file.truncate**([size]) Truncate the file's size. If the optional size argument is present, the file is truncated to (at most) that size. The size defaults to the current position. The current file position is not changed.
- **file.write(str)** Write a string to the file. There is no return value. Due to buffering, the string may not actually show up in the file until the flush() or close() method is called.
- file.close() Close the file. A closed file cannot be read or written any more. Any operation which requires that the file be open will raise a ValueError after the file has been closed. Calling close() more than once is allowed.
- **os.path** This module implements some useful functions on pathnames.
- os.path.exists(path) Return True if path refers to an existing path. Returns False for broken symbolic links. On some platforms, this function may return False if permission is not granted to execute os.stat() on the requested file, even if the path physically exists.
- From [module] import [names] Imports names from a module directly into the importing module's symbol table.
- **len(s)** Return the length (the number of items) of an object. The argument may be a sequence (string, tuple or list) or a mapping (dictionary).
- **import** [module] Imports a module
- file.seek(offset[, whence]) Set the file's current

position, like stdio's fseek(). The whence argument is optional and defaults to os. SEEK_SET or 0 (absolute file positioning); other values are os. SEEK_CUR or 1 (seek relative to the current position) and os. SEEK_END or 2 (seek relative to the file's end). There is no return value.

For example, f.seek(2, os.SEEK_CUR) advances the position by two and f.seek(-3, os.SEEK_END) sets the position to the third to last.

- file.readline([size]) Read one entire line from the file. A trailing newline character is kept in the string (but may be absent when a file ends with an incomplete line). [6] If the size argument is present and non-negative, it is a maximum byte count (including the trailing newline) and an incomplete line may be returned. When size is not 0, an empty string is returned only when EOF is encountered immediately.
- **return** when placed in the lines calling a function, makes that function output something
- readlines([sizehint]) Read until EOF using readline() and return a list containing the lines thus read. If the optional sizehint argument is present, instead of reading up to EOF, whole lines totalling approximately sizehint bytes (possibly after rounding up to an internal buffer size) are read. Objects implementing a file-like interface may choose to ignore sizehint if it cannot be implemented, or cannot be implemented efficiently.
- abs(x) Return the absolute value of a number. The argument may be a plain or long integer or a floating point number. If the argument is a complex number, its magnitude is returned.
- float([x]) Convert a string or a number to floating point. If the argument is a string, it must contain a possibly signed decimal or floating point number, possibly embedded in whitespace.