

ERROR HANDLING IN PYTHON

Exception

Cause of Error

`AssertionError`

Raised when an `assert` statement fails.

`AttributeError`

Raised when attribute assignment or reference fails.

`EOFError`

Raised when the `input()` function hits end-of-file condition.

`FloatingPointError`

Raised when a floating point operation fails.

`GeneratorExit`

Raise when a generator's `close()` method is called.

`ImportError`

Raised when the imported module is not found.

`IndexError`

Raised when the index of a sequence is out of range.

`KeyError`

Raised when a key is not found in a dictionary.

`KeyboardInterrupt`

Raised when the user hits the interrupt key (`Ctrl+C` or `Delete`).

`MemoryError`

Raised when an operation runs out of memory.

`NameError`

Raised when a variable is not found in local or global scope.

`NotImplementedError`

Raised by abstract methods.

`OSError`

Raised when system operation causes system related error.

`OverflowError`

Raised when the result of an arithmetic operation is too large to be represented.

`ReferenceError`

Raised when a weak reference proxy is used to access a garbage collected referent.

`RuntimeError`

Raised when an error does not fall under any other category.

`StopIteration`

Raised by `next()` function to indicate that there is no further item to be returned by iterator.

`SyntaxError`

Raised by parser when syntax error is encountered.

`IndentationError`

Raised when there is incorrect indentation.

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`TabError`

Raised when indentation consists of inconsistent tabs and spaces.

`SystemError`

Raised when interpreter detects internal error.

`SystemExit`

Raised by `sys.exit()` function.

`TypeError`

Raised when a function or operation is applied to an object of incorrect type.

`UnboundLocalError`

Raised when a reference is made to a local variable in a function or method, but no value has been bound to that variable.

`UnicodeError`

Raised when a Unicode-related encoding or decoding error occurs.

`UnicodeEncodeError`

Raised when a Unicode-related error occurs during encoding.

`UnicodeDecodeError`

Raised when a Unicode-related error occurs during decoding.

`UnicodeTranslateError`

Raised when a Unicode-related error occurs during translating.

`ValueError`

Raised when a function gets an argument of correct type but improper value.

`ZeroDivisionError`

Raised when the second operand of division or modulo operation is zero.