h5check
Version: 1.0

Syntax:

    h5check *[options] file*

Purpose:

> `h5check` is a validation tool for verifying that an HDF5 file is encoded according to the HDF File Format Specification. The purpose is to ensure data model integrity and long-term compatibility between evolving versions of the HDF5 Library.

Description:

> Given a file, `h5check` scans through the encoded content, verifying it against the defined library format. If it finds any non-compliance, it prints the error and the reason of non-compliance and, if possible, continues the scanning. If `h5check` does not find any non-compliance, it prints an approval statement upon completion. The tool does not link with the HDF Library and does not use any HDF5 Library API calls.

> By default, the file is verified against the latest version of the file format; as of this writing, that is the format recognized by the HDF5 Library release 1.8.*x* series. A format version can be explicitly specified with the *-fn* (or *--format=n*) option. For example, *-f16* (or *--format=16*) would specify verification against the format recognized by the HDF5 Library release 1.6.*x* series.

Options:

-h or *--help*	Print a usage message and exit.
-V or *--version*	Print version number and exit.
-vn or *--verbose=n*	Set verbose mode:
n=0	Terse — Indicates only whether file is compliant.
n=1	Default — Prints progress and all errors found.
n=2	Verbose — Prints all known information, usually for debugging.
-fn or *--format=n*	Set library release version against which file is to be validated:
n=16	Validate according to release 1.6.*x* series.
n=18	Validate according to release 1.8.*x* series. (*Default*)
-oa or *--object=a*	Check object header, where *a* is the address of the object header to be validated.