```
harshil@harshil:~$ history -c && history -w
harshil@harshil:~$ history
    1  history
harshil@harshil:~$ _
```

```
harshil@harshil:~$ sudo apt list | grep -i python3.10
[sudo] password for harshil:

WARNING: apt does not have a stable CLI interface. Use with caution in scripts.

harshil@harshil:~$
```

```
harshil@harshil:~$ wget https://www.python.org/ftp/python/3.10.16/Python-3.10.16.tgz
--2025-01-24 18:16:55--  https://www.python.org/ftp/python/3.10.16/Python-3.10.16.tgz
Resolving www.python.org (www.python.org)... 151.101.64.223, 151.101.128.223, 151.101.192.223, ...
Connecting to www.python.org (www.python.org)|151.101.64.223|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 25942994 (25M) [application/octet-stream]
Saving to: 'Python-3.10.16.tgz'

Python-3.10.16.tgz          100%[===================================================================>]  24.74M  6.58MB/s    in 3.7s

2025-01-24 18:16:59 (6.62 MB/s) - 'Python-3.10.16.tgz' saved [25942994/25942994]

harshil@harshil:~$ ls
Python-3.10.16.tgz
harshil@harshil:~$
```

```
harshil@harshil:~$ tar -xvf Python-3.10.16
```

```
Python-3.10.16/Tools/stringbench/stringbench.py
Python-3.10.16/Tools/test2to3/
Python-3.10.16/Tools/test2to3/README
Python-3.10.16/Tools/test2to3/maintest.py
Python-3.10.16/Tools/test2to3/setup.py
Python-3.10.16/Tools/test2to3/test/
Python-3.10.16/Tools/test2to3/test/runtests.py
Python-3.10.16/Tools/test2to3/test/test_foo.py
Python-3.10.16/Tools/test2to3/test2to3/
Python-3.10.16/Tools/test2to3/test2to3/__init__.py
Python-3.10.16/Tools/test2to3/test2to3/hello.py
Python-3.10.16/Tools/tz/
Python-3.10.16/Tools/tz/zdump.py
Python-3.10.16/Tools/unicode/
Python-3.10.16/Tools/unicode/Makefile
Python-3.10.16/Tools/unicode/comparecodecs.py
Python-3.10.16/Tools/unicode/gencjkcodecs.py
Python-3.10.16/Tools/unicode/gencodec.py
Python-3.10.16/Tools/unicode/genmap_japanese.py
Python-3.10.16/Tools/unicode/genmap_korean.py
Python-3.10.16/Tools/unicode/genmap_schinese.py
Python-3.10.16/Tools/unicode/genmap_support.py
Python-3.10.16/Tools/unicode/genwincodec.py
Python-3.10.16/Tools/unicode/genwincodecs.bat
Python-3.10.16/Tools/unicode/listcodecs.py
Python-3.10.16/Tools/unicode/makeunicodedata.py
Python-3.10.16/Tools/unicode/mkstringprep.py
Python-3.10.16/Tools/unicode/python-mappings/
Python-3.10.16/Tools/unicode/python-mappings/CP1140.TXT
Python-3.10.16/Tools/unicode/python-mappings/CP273.TXT
Python-3.10.16/Tools/unicode/python-mappings/GB2312.TXT
Python-3.10.16/Tools/unicode/python-mappings/KOI8-U.TXT
Python-3.10.16/Tools/unicode/python-mappings/TIS-620.TXT
Python-3.10.16/Tools/unicode/python-mappings/diff/
Python-3.10.16/Tools/unicode/python-mappings/diff/jisx0213-2000-std.txt.diff
Python-3.10.16/Tools/unicode/python-mappings/diff/jisx0213-2004-std.txt.diff
Python-3.10.16/Tools/unicode/python-mappings/gb-18030-2000.xml
Python-3.10.16/Tools/unicode/python-mappings/jisx0213-2004-std.txt
Python-3.10.16/Tools/unittestgui/
Python-3.10.16/Tools/unittestgui/README.txt
Python-3.10.16/Tools/unittestgui/unittestgui.py
Python-3.10.16/aclocal.m4
Python-3.10.16/config.guess
Python-3.10.16/config.sub
Python-3.10.16/configure
Python-3.10.16/configure.ac
Python-3.10.16/install-sh
Python-3.10.16/pyconfig.h.in
Python-3.10.16/setup.py
```

```
make build_all CFLAGS_NODIST=" -fprofile-use -fprofile-correction" LDFLAGS_NODIST=""
make[1]: Entering directory '/home/harshil/Python-3.10.16'
  CC='gcc' LDSHARED='gcc -shared   -fno-semantic-interposition ' OPT='-DNDEBUG -g -fwrapv -O3 -Wall'    _TCLTK_INCLUDES='' _TCLTK_LIBS=''        ./python -E ./se
tup.py  build
running build
running build_ext
INFO: Can't locate Tcl/Tk libs and/or headers
building '_ctypes' extension
gcc -fPIC -Wno-unused-result -Wsign-compare -DNDEBUG -g -fwrapv -O3 -Wall -fno-semantic-interposition -std=c99 -Wextra -Wno-unused-result -Wno-unused-parameter
-Wno-missing-field-initializers -Werror=implicit-function-declaration -fvisibility=hidden -fprofile-use -fprofile-correction -I./Include/internal -I./Include -I
. -I/usr/include/x86_64-linux-gnu -I/usr/local/include -I/home/harshil/Python-3.10.16/Include -I/home/harshil/Python-3.10.16 -c /home/harshil/Python-3.10.16/Mod
ules/_ctypes/_ctypes.c -o build/temp.linux-x86_64-3.10/home/harshil/Python-3.10.16/Modules/_ctypes/_ctypes.o -DPy_BUILD_CORE_MODULE
/home/harshil/Python-3.10.16/Modules/_ctypes/_ctypes.c:107:10: fatal error: ffi.h: No such file or directory
  107 | #include ffi.h>
      |
compilation terminated.

The necessary bits to build these optional modules were not found:
_bz2                  _curses               _curses_panel
_dbm                  _gdbm                 _hashlib
_lzma                 _sqlite3              _ssl
_tkinter              _uuid                 nis
readline              zlib
To find the necessary bits, look in setup.py in detect_modules() for the module's name.


The following modules found by detect_modules() in setup.py, have been
built by the Makefile instead, as configured by the Setup files:
_abc                  pwd                   time


Failed to build these modules:
_ctypes


Could not build the ssl module!
Python requires a OpenSSL 1.1.1 or newer

running build_scripts
copying and adjusting /home/harshil/Python-3.10.16/Tools/scripts/pydoc3 -> build/scripts-3.10
copying and adjusting /home/harshil/Python-3.10.16/Tools/scripts/idle3 -> build/scripts-3.10
copying and adjusting /home/harshil/Python-3.10.16/Tools/scripts/2to3 -> build/scripts-3.10
changing mode of build/scripts-3.10/pydoc3 from 664 to 775
changing mode of build/scripts-3.10/idle3 from 664 to 775
changing mode of build/scripts-3.10/2to3 from 664 to 775
renaming build/scripts-3.10/pydoc3 to build/scripts-3.10/pydoc3.10
renaming build/scripts-3.10/idle3 to build/scripts-3.10/idle3.10
renaming build/scripts-3.10/2to3 to build/scripts-3.10/2to3-3.10
make[1]: Leaving directory '/home/harshil/Python-3.10.16'
harshil@harshil:~/Python-3.10.16$
```

```
changing mode of /home/harshil/python3.10/bin/pydoc3.10 to 775
changing mode of /home/harshil/python3.10/bin/idle3.10 to 775
changing mode of /home/harshil/python3.10/bin/2to3-3.10 to 775
rm /home/harshil/python3.10/lib/python3.10/lib-dynload/_sysconfigdata__linux_x86_64-linux-gnu.py
rm -r /home/harshil/python3.10/lib/python3.10/lib-dynload/__pycache__
/usr/bin/install -c -m 644 ./Misc/python.man \
        /home/harshil/python3.10/share/man/man1/python3.10.1
if test "xupgrade" != "xno"  ; then \
        case upgrade in \
                upgrade) ensurepip="--altinstall --upgrade" ;; \
                install|*) ensurepip="--altinstall" ;; \
        esac; \
        ./python -E -m ensurepip \
                $ensurepip --root=/ ; \
fi
Looking in links: /tmp/tmpmdbcxqjv
Processing /tmp/tmpmdbcxqjv/setuptools-63.2.0-py3-none-any.whl
Processing /tmp/tmpmdbcxqjv/pip-22.2.1-py3-none-any.whl
Installing collected packages: setuptools, pip
  WARNING: The script pip3.10 is installed in '/home/harshil/python3.10/bin' which is not on PATH.
  Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
Successfully installed pip-22.2.1 setuptools-63.2.0
harshil@harshil:~/Python-3.10.6$ cd ../
harshil@harshil:~$ ls
sw  ltdfti  python3.10  python310  Python-3.10.6  Python-3.10.6.tgz  zlib
harshil@harshil:~$ python3.10/bin/python3.10
Python 3.10.6 (main, Jan 26 2025, 12:03:18) [GCC 13.3.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> exit()
harshil@harshil:~$ python3.10/bin/python3.10 -m pip install label-studio
WARNING: pip is configured with locations that require TLS/SSL, however the ssl module in Python is not available.
WARNING: Retrying (Retry(total=4, connect=None, read=None, redirect=None, status=None)) after connection broken by 'SSLError("Can't connect to
 the SSL module is not available.")': /simple/label-studio/
WARNING: Retrying (Retry(total=3, connect=None, read=None, redirect=None, status=None)) after connection broken by 'SSLError("Can't connect to
 the SSL module is not available.")': /simple/label-studio/
WARNING: Retrying (Retry(total=2, connect=None, read=None, redirect=None, status=None)) after connection broken by 'SSLError("Can't connect to
 the SSL module is not available.")': /simple/label-studio/
WARNING: Retrying (Retry(total=1, connect=None, read=None, redirect=None, status=None)) after connection broken by 'SSLError("Can't connect to
 the SSL module is not available.")': /simple/label-studio/
WARNING: Retrying (Retry(total=0, connect=None, read=None, redirect=None, status=None)) after connection broken by 'SSLError("Can't connect to
 the SSL module is not available.")': /simple/label-studio/
Could not fetch URL https://pypi.org/simple/label-studio/: There was a problem confirming the ssl certificate: HTTPSConnectionPool(host='pypi.o
ax retries exceeded with url: /simple/label-studio/ (Caused by SSLError("Can't connect to HTTPS URL because the SSL module is not available."))
ERROR: Could not find a version that satisfies the requirement label-studio (from versions: none)
ERROR: No matching distribution found for label-studio
WARNING: pip is configured with locations that require TLS/SSL, however the ssl module in Python is not available.
Could not fetch URL https://pypi.org/simple/pip/: There was a problem confirming the ssl certificate: HTTPSConnectionPool(host='pypi.org', port
s exceeded with url: /simple/pip/ (Caused by SSLError("Can't connect to HTTPS URL because the SSL module is not available.")) - skipping
WARNING: There was an error checking the latest version of pip.
harshil@harshil:~$
```

```
harshil@harshil:~$ python3.10/bin/python3.10 --version
Python 3.10.6
```

```
harshil@harshil:~$ python3.10/bin/python3.10 -m pip --version
pip 22.2.1 from /home/harshil/python3.10/lib/python3.10/site-packages/pip (python 3.10)
harshil@harshil:~$ _
```

```
openssl-1.1.1w/util/dofile.pl
openssl-1.1.1w/util/echo.pl
openssl-1.1.1w/util/find-doc-nits
openssl-1.1.1w/util/find-unused-errs
openssl-1.1.1w/util/fix-includes
openssl-1.1.1w/util/fix-includes.sed
openssl-1.1.1w/util/indent.pro
openssl-1.1.1w/util/libcrypto.num
openssl-1.1.1w/util/libssl.num
openssl-1.1.1w/util/local_shlib.com.in
openssl-1.1.1w/util/mkbuildinf.pl
openssl-1.1.1w/util/mkdef.pl
openssl-1.1.1w/util/mkdir-p.pl
openssl-1.1.1w/util/mkerr.pl
openssl-1.1.1w/util/mkrc.pl
openssl-1.1.1w/util/openssl-format-source
openssl-1.1.1w/util/openssl-update-copyright
openssl-1.1.1w/util/opensslwrap.sh
openssl-1.1.1w/util/perl/
openssl-1.1.1w/util/perl/OpenSSL/
openssl-1.1.1w/util/perl/OpenSSL/Glob.pm
openssl-1.1.1w/util/perl/OpenSSL/Test.pm
openssl-1.1.1w/util/perl/OpenSSL/Test/
openssl-1.1.1w/util/perl/OpenSSL/Test/Simple.pm
openssl-1.1.1w/util/perl/OpenSSL/Test/Utils.pm
openssl-1.1.1w/util/perl/OpenSSL/Util/
openssl-1.1.1w/util/perl/OpenSSL/Util/Pod.pm
openssl-1.1.1w/util/perl/OpenSSL/copyright.pm
openssl-1.1.1w/util/perl/TLSProxy/
openssl-1.1.1w/util/perl/TLSProxy/Alert.pm
openssl-1.1.1w/util/perl/TLSProxy/Certificate.pm
openssl-1.1.1w/util/perl/TLSProxy/CertificateRequest.pm
openssl-1.1.1w/util/perl/TLSProxy/CertificateVerify.pm
openssl-1.1.1w/util/perl/TLSProxy/ClientHello.pm
openssl-1.1.1w/util/perl/TLSProxy/EncryptedExtensions.pm
openssl-1.1.1w/util/perl/TLSProxy/Message.pm
openssl-1.1.1w/util/perl/TLSProxy/NewSessionTicket.pm
openssl-1.1.1w/util/perl/TLSProxy/Proxy.pm
openssl-1.1.1w/util/perl/TLSProxy/Record.pm
openssl-1.1.1w/util/perl/TLSProxy/ServerHello.pm
openssl-1.1.1w/util/perl/TLSProxy/ServerKeyExchange.pm
openssl-1.1.1w/util/perl/checkhandshake.pm
openssl-1.1.1w/util/perl/with_fallback.pm
openssl-1.1.1w/util/private.num
openssl-1.1.1w/util/process_docs.pl
openssl-1.1.1w/util/shlib_wrap.sh.in
openssl-1.1.1w/util/su-filter.pl
openssl-1.1.1w/util/unlocal_shlib.com.in
openssl-1.1.1w/wycheproof/
harshil@harshil:~$ cd openssl-1.1.1w_
```