

```
yay@yay:~$ history
  1  history
yay@yay:~$ sudo apt list | grep -i python3.10
[sudo] password for yay:
Sorry, try again.
[sudo] password for yay:

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

```
yay@yay:~$ lynx https://www.python.org/downloads/source
Command 'lynx' not found, but can be installed with:
sudo apt install lynx
yay@yay:~$
```

```
yay@yay:~$ history -c && history -w
yay@yay:~$ sudo apt list | grep -i python3.10

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

yay@yay:~$
```

```
yay@yay:~$ wget https://www.python.org/ftp/python/3.10.15/python-3.10.15.tgz
--2025-01-25 18:18:21-- https://www.python.org/ftp/python/3.10.15/python-3.10.15.tgz
Resolving www.python.org (www.python.org)... 151.101.152.223, 2a04:4e42:24::223
Connecting to www.python.org (www.python.org)|151.101.152.223|:443... connected.
HTTP request sent, awaiting response... 404 Not Found
2025-01-25 18:18:21 ERROR 404: Not Found.
```

```
yay@yay:~$ _
```

```
yay@yay:~$ wget https://www.python.org/ftp/python/3.10.15/Python-3.10.15.tgz
--2025-01-25 18:21:05-- https://www.python.org/ftp/python/3.10.15/Python-3.10.15.tgz
Resolving www.python.org (www.python.org)... 151.101.152.223, 2a04:4e42:24::223
Connecting to www.python.org (www.python.org)|151.101.152.223|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 25937958 (25M) [application/octet-stream]
Saving to: 'Python-3.10.15.tgz'
```

```
Python-3.10.15.tgz          100%[=====]
2025-01-25 18:21:09 (5.84 MB/s) - 'Python-3.10.15.tgz' saved [25937958/25937958]
```

```
yay@yay:~$ _
```

```
yay@yay:~$ wget https://www.python.org/ftp/python/3.10.15/Python-3.10.15.tgz
```

```

Python-3.10.15/Tools/unicode/listcodecs.py
Python-3.10.15/Tools/unicode/makeunicodedata.py
Python-3.10.15/Tools/unicode/mkstringprep.py
Python-3.10.15/Tools/unicode/python-mappings/
Python-3.10.15/Tools/unicode/python-mappings/CP1140.TXT
Python-3.10.15/Tools/unicode/python-mappings/CP273.TXT
Python-3.10.15/Tools/unicode/python-mappings/GB2312.TXT
Python-3.10.15/Tools/unicode/python-mappings/KOI8-U.TXT
Python-3.10.15/Tools/unicode/python-mappings/TIS-620.TXT
Python-3.10.15/Tools/unicode/python-mappings/diff/
Python-3.10.15/Tools/unicode/python-mappings/diff/jisx0213-2000-std.txt.diff
Python-3.10.15/Tools/unicode/python-mappings/diff/jisx0213-2004-std.txt.diff
Python-3.10.15/Tools/unicode/python-mappings/gb-18030-2000.xml
Python-3.10.15/Tools/unicode/python-mappings/jisx0213-2004-std.txt
Python-3.10.15/Tools/unittestgui/
Python-3.10.15/Tools/unittestgui/README.txt
Python-3.10.15/Tools/unittestgui/unittestgui.py
Python-3.10.15/aclocal.m4
Python-3.10.15/config.guess
Python-3.10.15/config.sub
Python-3.10.15/configure
Python-3.10.15/configure.ac
Python-3.10.15/install-sh
Python-3.10.15/pyconfig.h.in
Python-3.10.15/setup.py
yay@yay:~$
|
apt                                Python-3.10.15.tar
grep                               Python-3.10.15.tgz
sudo
https://www.python.org/ftp/python/3.10.15/python-3.10.15.tgz tar
https://www.python.org/ftp/python/3.10.15/Python-3.10.15.tgz wget
-i                                -xf
list                              -xvzf
python3.10
yay@yay:~$ wget https://www.python.org/ftp/python/3.10.15/Python-3.10.15.tgz
--2025-01-25 18:24:30-- https://www.python.org/ftp/python/3.10.15/Python-3.10.15.tgz
Resolving www.python.org (www.python.org)... 151.101.152.223, 2a04:4e42:24::223
Connecting to www.python.org (www.python.org)[151.101.152.223]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 25937958 (25M) [application/octet-stream]
Saving to: 'Python-3.10.15.tgz.1'

Python-3.10.15.tgz.1      50%[=====>
Python-3.10.15.tgz.1      58%[=====>
Python-3.10.15.tgz.1      100%[=====]
2025-01-25 18:24:33 (9.83 MB/s) - 'Python-3.10.15.tgz.1' saved [25937958/25937958]

```

```

yay@yay:~$ wget openssl.org/source/openssl-1.1.1t.tar.gz
--2025-01-25 18:29:54-- http://openssl.org/source/openssl-1.1.1t.tar.gz
Resolving openssl.org (openssl.org)... 34.49.79.89, 2600:1901:0:d50b::
Connecting to openssl.org (openssl.org)[34.49.79.89]:80... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://openssl.org:443/source/openssl-1.1.1t.tar.gz [following]
--2025-01-25 18:29:55-- https://openssl.org/source/openssl-1.1.1t.tar.gz
Connecting to openssl.org (openssl.org)[34.49.79.89]:443... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://github.com/openssl/openssl/releases/download/OpenSSL_1_1_1t/openssl-1.1.1t.tar.gz [following]
--2025-01-25 18:29:56-- https://github.com/openssl/openssl/releases/download/OpenSSL_1_1_1t/openssl-1.1.1t.tar.gz
Resolving github.com (github.com)... 20.207.73.82
Connecting to github.com (github.com)[20.207.73.82]:443... connected.
HTTP request sent, awaiting response... _

```

```
yay@yay:~$ gzip -d openssl-1.1.1t.tar.gz
```

```
yay@yay:~$ gzip -d openssl-1.1.1t.tar.gz
yay@yay:~$ tar -xf openssl-1.1.1t.tar_
```

```
yay@yay:~$ cd openssl-1.1.1t/  
yay@yay:~/openssl-1.1.1t$ ./config --prefix=$HOME/openssl --openssldir=$HOME/openssl shared zilb vim Makefile
```

```
yay@yay:~$ cd openssl-1.1.1t/  
yay@yay:~/openssl-1.1.1t$ ./config --prefix=$HOME/openssl --openssldir=$HOME/openssl shared zilb vim Makefile  
Operating system: x86_64-whatever-linux2
```

```
Failure! build file wasn't produced.
```

```
yay@yay:~$ cd openssl-1.1.1t/  
yay@yay:~/openssl-1.1.1t$ ./config --prefix=$HOME/openssl --openssldir=$HOME/openssl shared zilb vim Makefile  
Operating system: x86_64-whatever-linux2
```

```
Failure! build file wasn't produced.  
Please read INSTALL and associated NOTES files. You may also have to look over  
your available compiler tool chain or change your configuration.
```

```
target already defined - linux-x86_64 (offending arg: zilb)
```

```
yay@yay:~/openssl-1.1.1t$
```

```
yay@yay:~/openssl-1.1.1t$ make -js
```

## `-E, --environment-overrides`

Environment variables override makefiles.  
-E STRING, --eval=STRING Evaluate STRING as a makefile statement.  
-f FILE, --file=FILE, --makefile=FILE  
Read FILE as a makefile.  
-h, --help Print this message and exit.  
-i, --ignore-errors Ignore errors from recipes.  
-I DIRECTORY, --include-dir=DIRECTORY  
Search DIRECTORY for included makefiles.  
-j [N], --jobs[=N] Allow N jobs at once; infinite jobs with no  
-k, --keep-going Keep going when some targets can't be made.  
-l [N], --load-average[=N], --max-load[=N]  
Don't start multiple jobs unless load is below  
-L, --check-symlink-times Use the latest mtime between symlinks and targets.  
-n, --just-print, --dry-run, --recon  
Don't actually run any recipe; just print the commands.  
-o FILE, --old-file=FILE, --assume-old=FILE  
Consider FILE to be very old and don't remake it.  
-O[TYPE], --output-sync[=TYPE]  
Synchronize output of parallel jobs by TYPE.  
-p, --print-data-base Print make's internal database.  
-q, --question Run no recipe; exit status says if up to date.  
-r, --no-builtin-rules Disable the built-in implicit rules.  
-R, --no-builtin-variables Disable the built-in variable settings.  
-s, --silent, --quiet Don't echo recipes.  
--no-silent Echo recipes (disable --silent mode).  
-S, --no-keep-going, --stop  
Turns off -k.  
-t, --touch Touch targets instead of remaking them.  
--trace Print tracing information.  
-v, --version Print the version number of make and exit.  
-w, --print-directory Print the current directory.  
--no-print-directory Turn off -w, even if it was turned on implicitly.  
-W FILE, --what-if=FILE, --new-file=FILE, --assume-new=FILE  
Consider FILE to be infinitely new.  
--warn-undefined-variables Warn when an undefined variable is referenced.

This program built for x86\_64-pc-linux-gnu

Report bugs to <bug-make@gnu.org>

yay@yay:~/openssl-1.1.1t\$ make install

```

/home/yay/openssl/share/doc/openssl/html/man3/X509_delete_ext.html -> /home/y
/home/yay/openssl/share/doc/openssl/html/man3/X509_add_ext.html -> /home/y
/home/yay/openssl/share/doc/openssl/html/man3/X509_CRL_get_ext_count.html
/home/yay/openssl/share/doc/openssl/html/man3/X509_CRL_get_ext.html -> /ho
/home/yay/openssl/share/doc/openssl/html/man3/X509_CRL_get_ext_by_NID.html
/home/yay/openssl/share/doc/openssl/html/man3/X509_CRL_get_ext_by_OBJ.html
/home/yay/openssl/share/doc/openssl/html/man3/X509_CRL_get_ext_by_critical
/home/yay/openssl/share/doc/openssl/html/man3/X509_CRL_delete_ext.html ->
/home/yay/openssl/share/doc/openssl/html/man3/X509_CRL_add_ext.html -> /ho
/home/yay/openssl/share/doc/openssl/html/man3/X509_REVOKED_get_ext_count.h
/home/yay/openssl/share/doc/openssl/html/man3/X509_REVOKED_get_ext.html ->
/home/yay/openssl/share/doc/openssl/html/man3/X509_REVOKED_get_ext_by_NID.
/home/yay/openssl/share/doc/openssl/html/man3/X509_REVOKED_get_ext_by_OBJ.
/home/yay/openssl/share/doc/openssl/html/man3/X509_REVOKED_get_ext_by_crit
/home/yay/openssl/share/doc/openssl/html/man3/X509_REVOKED_delete_ext.html
/home/yay/openssl/share/doc/openssl/html/man3/X509_REVOKED_add_ext.html ->
/home/yay/openssl/share/doc/openssl/html/man5/config.html
/home/yay/openssl/share/doc/openssl/html/man5/x509v3_config.html
/home/yay/openssl/share/doc/openssl/html/man7/bio.html
/home/yay/openssl/share/doc/openssl/html/man7/crypto.html
/home/yay/openssl/share/doc/openssl/html/man7/ct.html
/home/yay/openssl/share/doc/openssl/html/man7/des_modes.html
/home/yay/openssl/share/doc/openssl/html/man7/Ed25519.html
/home/yay/openssl/share/doc/openssl/html/man7/Ed448.html -> /home/yay/open
/home/yay/openssl/share/doc/openssl/html/man7/evp.html
/home/yay/openssl/share/doc/openssl/html/man7/openssl_store-file.html
/home/yay/openssl/share/doc/openssl/html/man7/openssl_store.html
/home/yay/openssl/share/doc/openssl/html/man7/passphrase-encoding.html
/home/yay/openssl/share/doc/openssl/html/man7/proxy-certificates.html
/home/yay/openssl/share/doc/openssl/html/man7/RAND.html
/home/yay/openssl/share/doc/openssl/html/man7/RAND_DRBG.html
/home/yay/openssl/share/doc/openssl/html/man7/RSA-PSS.html
/home/yay/openssl/share/doc/openssl/html/man7/scrypt.html
/home/yay/openssl/share/doc/openssl/html/man7/SM2.html
/home/yay/openssl/share/doc/openssl/html/man7/ssl.html
/home/yay/openssl/share/doc/openssl/html/man7/X25519.html
/home/yay/openssl/share/doc/openssl/html/man7/X448.html -> /home/yay/opens
/home/yay/openssl/share/doc/openssl/html/man7/x509.html
yay@yay:~/openssl-1.1.1t$ _

```

```

yay@yay:~/openssl-1.1.1t$ echo "$LD_LIBRARY_PATH" _

```

```

y:~/openssl-1.1.1t$ ^C
y:~/openssl-1.1.1t$ ^C
y:~/openssl-1.1.1t$ echo "$LD_LIBRARY_PATH=$HOME/openssl/lib:$LD_LIBRARY_PATH" >> ~/.bashrc

```

```

Stopped vim ~/.bashrc
y:~/openssl-1.1.1t$ echo "$LD_LIBRARY_PATH"

y:~/openssl-1.1.1t$ ^C
y:~/openssl-1.1.1t$ ^C
y:~/openssl-1.1.1t$ echo "$LD_LIBRARY_PATH=$HOME/openssl/lib:$LD_LIBRARY_PATH" >> ~/.bashrc
y:~/openssl-1.1.1t$ echo "$PATH=$HOME/openssl/bin:$PATH" >> ~/.bashrc
y:~/openssl-1.1.1t$

```

```
yay@yay:~/openssl-1.1.1t$ ^C
yay@yay:~/openssl-1.1.1t$ ^C
yay@yay:~/openssl-1.1.1t$ echo "$LD_LIBRARY_PATH=$HOME/openssl/lib:$LD_LIBRARY_PATH" >> ~/.bashrc
yay@yay:~/openssl-1.1.1t$ echo "$PATH=$HOME/openssl/bin:$PATH" >> ~/.bashrc
yay@yay:~/openssl-1.1.1t$ source ~/.bashrc
```

```
yay@yay:~/openssl-1.1.1t$ ^C
yay@yay:~/openssl-1.1.1t$ ^C
yay@yay:~/openssl-1.1.1t$ echo "$LD_LIBRARY_PATH=$HOME/openssl/lib:$LD_LIBRARY_PATH" >> ~/.bashrc
yay@yay:~/openssl-1.1.1t$ echo "$PATH=$HOME/openssl/bin:$PATH" >> ~/.bashrc
yay@yay:~/openssl-1.1.1t$ source ~/.bashrc
-bash: =/home/yay/openssl/lib:: No such file or directory
-bash: /usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin=/home/yay/openssl/bin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin: No such file or directory
yay@yay:~/openssl-1.1.1t$
```

```
# enable color support of ls and also add handy aliases
if [ -x /usr/bin/dircolors ]; then
    test -r ~/.dircolors && eval "$(dircolors -b ~/.dircolors)" || eval "$(dircolors -b)"
    alias ls='ls --color=auto'
    #alias dir='dir --color=auto'
    #alias vdir='vdir --color=auto'

    alias grep='grep --color=auto'
    alias fgrep='fgrep --color=auto'
    alias egrep='egrep --color=auto'
fi

# colored GCC warnings and errors
#export GCC_COLORS='error=01;31:warning=01;35:note=01;36:caret=01;32:locus=01:quote=01'

# some more ls aliases
alias ll='ls -alF'
alias la='ls -A'
alias l='ls -CF'

# Add an "alert" alias for long running commands. Use like so:
#   sleep 10; alert
alias alert='notify-send --urgency=low -i "${?} = 0" && echo terminal || echo error)' "${history|tail -n1|sed -e '\s$' }'"

# Alias definitions.
# You may want to put all your additions into a separate file like
# ~/.bash_aliases, instead of adding them here directly.
# See /usr/share/doc/bash-doc/examples in the bash-doc package.

if [ -f ~/.bash_aliases ]; then
    . ~/.bash_aliases
fi

# enable programmable completion features (you don't need to enable
# this, if it's already enabled in /etc/bash.bashrc and /etc/profile
# sources /etc/bash.bashrc).
if ! shopt -oq posix; then
    if [ -f /usr/share/bash-completion/bash_completion ]; then
        . /usr/share/bash-completion/bash_completion
    elif [ -f /etc/bash_completion ]; then
        . /etc/bash_completion
    fi
fi

=/home/yay/openssl/lib:
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin=/home/yay/openssl/bin:
n:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin
=/home/yay/openssl/lib:
yay@yay:~/openssl-1.1.1t$
```

```
export LD_LIBRARY_PATH=$HOME/openssl/lib:$LD_LIBRARY_PATH
export PATH=$HOME/openssl/bin:$PATH
```

```
yay@yay:~/openssl-1.1.1t$ echo "$PATH"
/home/yay/openssl/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin
yay@yay:~/openssl-1.1.1t$ echo "$LD_LIBRARY_PATH"
/home/yay/openssl/lib:
```

```
yay@yay:~/openssl-1.1.1t$ export CFLAGS="-I$HOME/openssl/include"
yay@yay:~/openssl-1.1.1t$ echo "$CFLAGS"
-I/home/yay/openssl/include
yay@yay:~/openssl-1.1.1t$ export LDFLAGS="-L$HOME/openssl/lib"
yay@yay:~/openssl-1.1.1t$ echo "$LDFLAGS"
-L/home/yay/openssl/lib
yay@yay:~/openssl-1.1.1t$ _
```

```
yay@yay:~/Python-3.10.15$ ./configure --prefix=$HOME/python3.10 --with-openssl=$HOME/openssl
```

```
checking for typeahead... yes
checking for use_env... yes
configure: checking for device files
checking for /dev/ptmx... yes
checking for /dev/ptc... no
checking for %zd printf() format support... yes
checking for socklen_t... yes
checking for broken mbstowcs... no
checking for --with-computed-gotos... no value specified
checking whether gcc supports computed gotos... yes
checking for build directories... done
checking for -O2... yes
checking for glibc _FORTIFY_SOURCE/memmove bug... no
checking for gcc ipa-pure-const bug... no
checking for stdatomic.h... yes
checking for builtin __atomic_load_n and __atomic_store_n functions... yes
checking for ensurepip... upgrade
checking if the dirent structure of a d_type field... yes
checking for the Linux getrandom() syscall... yes
checking for the getrandom() function... yes
checking for library containing shm_open... none required
checking for sys/mman.h... (cached) yes
checking for shm_open... yes
checking for shm_unlink... yes
checking for openssl/ssl.h in /home/yay/openssl... yes
checking whether compiling and linking against OpenSSL works... yes
checking for --with-openssl-rpath...
checking whether OpenSSL provides required APIs... yes
checking for --with-ssl-default-suites... python
checking for --with-builtin-hashlib-hashes... md5,sha1,sha256,sha512,sha3,blake2
checking for --with-experimental-isolated-subinterpreters... no
checking for --with-static-libpython... yes
checking for --disable-test-modules... no
configure: creating ./config.status
config.status: creating Makefile.pre
config.status: creating Misc/python.pc
config.status: creating Misc/python-embed.pc
config.status: creating Misc/python-config.sh
config.status: creating Modules/ld_so_aix
config.status: creating pyconfig.h
creating Modules/Setup.local
creating Makefile
```

If you want a release build with all stable optimizations active (PGO, etc),  
please run `./configure --enable-optimizations`

```
yay@yay:~/Python-3.10.15$ _
```

```
yay@yay:~/Python-3.10.15$ make -j16 _
```

```

e/home/yay/Python-3.10.15/Modules/_decimal/libmpdec/numbertheory.o
gcc -fPIC -Wno-unused-result -Wsign-compare -DNDEBUG -g -fwrapv -
result -Wno-unused-parameter -Wno-missing-field-initializers -Werr
-I/home/yay/Python-3.10.15/Modules/_decimal/libmpdec -I./Include
e/home/yay/Python-3.10.15/Include -I/home/yay/Python-3.10.15 -c /home/
Python-3.10.15/Modules/_decimal/libmpdec/sixstep.o
gcc -fPIC -Wno-unused-result -Wsign-compare -DNDEBUG -g -fwrapv -
result -Wno-unused-parameter -Wno-missing-field-initializers -Werr
-I/home/yay/Python-3.10.15/Modules/_decimal/libmpdec -I./Include
e/home/yay/Python-3.10.15/Include -I/home/yay/Python-3.10.15 -c /home/
ay/Python-3.10.15/Modules/_decimal/libmpdec/transpose.o
gcc -shared -I/home/yay/openssl/lib -I/home/yay/openssl/lib -I/ho
0.15/Modules/_decimal/_decimal.o build/temp.linux-x86_64-3.10/hom
y/Python-3.10.15/Modules/_decimal/libmpdec/constants.o build/temp
-x86_64-3.10/home/yay/Python-3.10.15/Modules/_decimal/libmpdec/co
build/temp.linux-x86_64-3.10/home/yay/Python-3.10.15/Modules/_dec
/libmpdec/fnt.o build/temp.linux-x86_64-3.10/home/yay/Python-3.10
modules/_decimal/libmpdec/io.o build/temp.linux-x86_64-3.10/home/y
hon-3.10.15/Modules/_decimal/libmpdec/mpdecimal.o build/temp.linu
-x86_64-3.10/home/yay/Python-3.10.15/Modules/_decimal/libmpdec/si
e.o -L/home/yay/python3.10/lib -L/usr/lib/x86_64-linux-gnu -L/usr

```

The necessary bits to build these optional modules were not found

_dbm	_gdbm	_lzma
_sqlite3	_tkinter	_uuid
nis		

To find the necessary bits, look in setup.py in detect\_modules()

The following modules found by detect\_modules() in setup.py, have  
 built by the Makefile instead, as configured by the Setup files:

_abc	pwd	time
------	-----	------

running build\_scripts

creating build/scripts-3.10

copying and adjusting /home/yay/Python-3.10.15/Tools/scripts/pydo

copying and adjusting /home/yay/Python-3.10.15/Tools/scripts/idle

copying and adjusting /home/yay/Python-3.10.15/Tools/scripts/2to3

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/pydoc3.1

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



```

/usr/bin/install: nis
cannot remove '/home/yay/python3.10/include/python3.10/pythread.h': To find the necessary bits, look in setup.py in de
: Permission denied

The following modules found by detect_modules() in setup.py, have been
built by the Makefile instead, as configured by the Setup files:
 _abc          pud          time
/usr/bin/install -c -m 644 ./Include/rangeobject.h /home/yay/python3.10/include/python3.10

running build_scripts
copying and adjusting /home/yay/Python-3.10.15/Tools/scripts/pydoc3 -> build/scripts-3.10
copying and adjusting /home/yay/Python-3.10.15/Tools/scripts/idle3 -> build/scripts-3.10
copying and adjusting /home/yay/Python-3.10.15/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
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/rangeobject.h': Permission denied
renaming build/scripts-3.10/pydoc3 to build/scripts-3.10/pydoc3.10
/usr/bin/install -c -m 644 ./Include/setobject.h /home/yay/python3.10/include/python3.10
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
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/setobject.h': Permission denied
/usr/bin/install -c -m 644 ./Include/sliceobject.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/sliceobject.h': Permission denied
/usr/bin/install -c -m 644 ./Include/structmember.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/structmember.h': Permission denied
/usr/bin/install -c -m 644 ./Include/structseq.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/structseq.h': Permission denied
/usr/bin/install -c -m 644 ./Include/sysmodule.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/sysmodule.h': Permission denied
/usr/bin/install -c -m 644 ./Include/token.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/token.h': Permission denied
/usr/bin/install -c -m 644 ./Include/traceback.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/traceback.h': Permission denied
/usr/bin/install -c -m 644 ./Include/tracemalloc.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/tracemalloc.h': Permission denied
/usr/bin/install -c -m 644 ./Include/tupleobject.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/tupleobject.h': Permission denied
/usr/bin/install -c -m 644 ./Include/typeslots.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/typeslots.h': Permission denied
/usr/bin/install -c -m 644 ./Include/unicodeobject.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/unicodeobject.h': Permission denied
/usr/bin/install -c -m 644 ./Include/warnings.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/warnings.h': Permission denied
/usr/bin/install -c -m 644 ./Include/weakrefobject.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/weakrefobject.h': Permission denied
make: *** [Makefile:1670: inclinstall] Error 1
yay@yay:~/Python-3.10.15$

```

```

usr/bin/install -c -m 644 ./Include/rangeobject.h /home/yay/python3.10/include/python3.10

running build_scripts
copying and adjusting /home/yay/Python-3.10.15/Tools/scripts/pydoc3 -> build/scripts-3.10
copying and adjusting /home/yay/Python-3.10.15/Tools/scripts/idle3 -> build/scripts-3.10
copying and adjusting /home/yay/Python-3.10.15/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
usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/rangeobject.h': Permission denied
renaming build/scripts-3.10/pydoc3 to build/scripts-3.10/pydoc3.10
usr/bin/install -c -m 644 ./Include/setobject.h /home/yay/python3.10/include/python3.10
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
usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/setobject.h': Permission denied
usr/bin/install -c -m 644 ./Include/sliceobject.h /home/yay/python3.10/include/python3.10
usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/sliceobject.h': Permission denied
usr/bin/install -c -m 644 ./Include/structmember.h /home/yay/python3.10/include/python3.10
usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/structmember.h': Permission denied
usr/bin/install -c -m 644 ./Include/structseq.h /home/yay/python3.10/include/python3.10
usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/structseq.h': Permission denied
usr/bin/install -c -m 644 ./Include/sysmodule.h /home/yay/python3.10/include/python3.10
usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/sysmodule.h': Permission denied
usr/bin/install -c -m 644 ./Include/token.h /home/yay/python3.10/include/python3.10
usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/token.h': Permission denied
usr/bin/install -c -m 644 ./Include/traceback.h /home/yay/python3.10/include/python3.10
usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/traceback.h': Permission denied
usr/bin/install -c -m 644 ./Include/tracemalloc.h /home/yay/python3.10/include/python3.10
usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/tracemalloc.h': Permission denied
usr/bin/install -c -m 644 ./Include/tupleobject.h /home/yay/python3.10/include/python3.10
usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/tupleobject.h': Permission denied
usr/bin/install -c -m 644 ./Include/typeslots.h /home/yay/python3.10/include/python3.10
usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/typeslots.h': Permission denied
usr/bin/install -c -m 644 ./Include/unicodeobject.h /home/yay/python3.10/include/python3.10
usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/unicodeobject.h': Permission denied
usr/bin/install -c -m 644 ./Include/warnings.h /home/yay/python3.10/include/python3.10
usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/warnings.h': Permission denied
usr/bin/install -c -m 644 ./Include/weakrefobject.h /home/yay/python3.10/include/python3.10
usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/weakrefobject.h': Permission denied
make: *** [Makefile:1670: inclinstall] Error 1
yay@yay:~/Python-3.10.15$

```

```

yay@yay:~/Python-3.10.15$ make clean install -j5_

```

```

/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/sysmodule.h': Permission denied
/usr/bin/install -c -m 644 ./Include/token.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/token.h': Permission denied
/usr/bin/install -c -m 644 ./Include/traceback.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/traceback.h': Permission denied
/usr/bin/install -c -m 644 ./Include/tracemalloc.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/tracemalloc.h': Permission denied
/usr/bin/install -c -m 644 ./Include/tupleobject.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/tupleobject.h': Permission denied
/usr/bin/install -c -m 644 ./Include/typeslots.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/typeslots.h': Permission denied
/usr/bin/install -c -m 644 ./Include/unicodeobject.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/unicodeobject.h': Permission denied
/usr/bin/install -c -m 644 ./Include/warnings.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/warnings.h': Permission denied
/usr/bin/install -c -m 644 ./Include/weakrefobject.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/weakrefobject.h': Permission denied
make: *** [Makefile:1670: inclinstall] Error 1
running build
running build_ext
INFO: Can't locate Tcl/Tk libs and/or headers

The necessary bits to build these optional modules were not found:
_dbm          _gdbm          _lzma
_sqlite3      _tkinter       _uuid
nis
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:
_libc         pwd             time

running build_scripts
copying and adjusting /home/yay/Python-3.10.15/Tools/scripts/pydoc3 -> build/scripts-3.10
copying and adjusting /home/yay/Python-3.10.15/Tools/scripts/idle3 -> build/scripts-3.10
copying and adjusting /home/yay/Python-3.10.15/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

```

```
ay@yay:~/Python-3.10.15$ make install -j10
```

```

running build_scripts
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/sysmodule.h': Permission denied
copying and adjusting /home/yay/Python-3.10.15/Tools/scripts/pydoc3 -> build/scripts-3.10
/usr/bin/install -c -m 644 ./Include/token.h /home/yay/python3.10/include/python3.10
copying and adjusting /home/yay/Python-3.10.15/Tools/scripts/idle3 -> build/scripts-3.10
copying and adjusting /home/yay/Python-3.10.15/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
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/token.h': Permission denied
renaming build/scripts-3.10/idle3 to build/scripts-3.10/idle3.10
/usr/bin/install -c -m 644 ./Include/traceback.h /home/yay/python3.10/include/python3.10
renaming build/scripts-3.10/2to3 to build/scripts-3.10/2to3-3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/traceback.h': Permission denied
/usr/bin/install -c -m 644 ./Include/tracemalloc.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/tracemalloc.h': Permission denied
/usr/bin/install -c -m 644 ./Include/tupleobject.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/tupleobject.h': Permission denied
/usr/bin/install -c -m 644 ./Include/typeslots.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/typeslots.h': Permission denied
/usr/bin/install -c -m 644 ./Include/unicodeobject.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/unicodeobject.h': Permission denied
/usr/bin/install -c -m 644 ./Include/warnings.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/warnings.h': Permission denied
/usr/bin/install -c -m 644 ./Include/weakrefobject.h /home/yay/python3.10/include/python3.10
/usr/bin/install: cannot remove '/home/yay/python3.10/include/python3.10/weakrefobject.h': Permission denied
make: *** [Makefile:1670: inclinstall] Error 1
ay@yay:~/Python-3.10.15$ _

```

```
yay@yay:~/Python-3.10.15$ nano ~/.bashrc_
```

```
export PATH=$HOME/openssl/bin:$HOME/python3.10/bin:$PATH
```

```
yay@yay:~/Python-3.10.15$ python3.10 -m ensurepip_
```

```
yay@yay:~/Python-3.10.15$ python3.10 -m pip install --upgrade pip
/usr/local/bin/python3.10: No module named pip
yay@yay:~/Python-3.10.15$
```

```
yay@yay:~/Python-3.10.15$ python3.10 -m ensurepip
Traceback (most recent call last):
  File "<frozen zipimport>", line 570, in _get_decompress_func
ModuleNotFoundError: No module named 'zlib'
```

During handling of the above exception, another exception occurred:

```
Traceback (most recent call last):
  File "<frozen zipimport>", line 618, in _get_data
  File "<frozen zipimport>", line 573, in _get_decompress_func
zipimport.ZipImportError: can't decompress data; zlib not available
```

During handling of the above exception, another exception occurred:

```
Traceback (most recent call last):
  File "<string>", line 6, in <module>
  File "/usr/local/lib/python3.10/runpy.py", line 205, in run_module
    mod_name, mod_spec, code = _get_module_details(mod_name)
  File "/usr/local/lib/python3.10/runpy.py", line 146, in _get_module_details
    return _get_module_details(pkg_main_name, error)
  File "/usr/local/lib/python3.10/runpy.py", line 110, in _get_module_details
    __import__(pkg_name)
  File "<frozen zipimport>", line 196, in get_code
  File "<frozen zipimport>", line 752, in _get_module_code
  File "<frozen zipimport>", line 620, in _get_data
zipimport.ZipImportError: can't decompress data; zlib not available
```

```
Traceback (most recent call last):
  File "/usr/local/lib/python3.10/runpy.py", line 196, in _run_module_as_main
    return _run_code(code, main_globals, None,
  File "/usr/local/lib/python3.10/runpy.py", line 86, in _run_code
    exec(code, run_globals)
  File "/usr/local/lib/python3.10/ensurepip/__main__.py", line 5, in <module>
    sys.exit(ensurepip._main())
  File "/usr/local/lib/python3.10/ensurepip/__init__.py", line 277, in _main
    return _bootstrap(
  File "/usr/local/lib/python3.10/ensurepip/__init__.py", line 193, in _bootstrap
    return _run_pip([*args, *_PACKAGE_NAMES], additional_paths)
  File "/usr/local/lib/python3.10/ensurepip/__init__.py", line 93, in _run_pip
    return subprocess.run([sys.executable, '-W', 'ignore::DeprecationWarning',
  File "/usr/local/lib/python3.10/subprocess.py", line 524, in run
    raise CalledProcessError(retcode, process.args,
subprocess.CalledProcessError: Command '['/usr/local/bin/python3.10', '-W', 'ignore::Deprec
tmpm01c5kh_/setuptools-57.4.0-py3-none-any.whl\\', '\\tmp/tmpm01c5kh_/pip-21.2.3-py3-none-an
\\'--no-index\\', '\\--find-links\\', '\\tmp/tmpm01c5kh_\\', '\\setuptools\\', '\\pip\\']\\nrunpy.ru
n-zero exit status 1.
```

```
yay@yay:~/Python-3.10.15$ python3.10 -m pip install --upgrade pip
/usr/local/bin/python3.10: No module named pip
yay@yay:~/Python-3.10.15$
```

```
yay@yay:~/Python-3.10.15$ cd ..  
yay@yay:~$ wget https://zlib.net/zlib-1.2.13.tar.gz
```

```
yay@yay:~$ wget "https://archive.ubuntu.com/ubuntu/pool/main/z/zlib/zlib_1.3.dfsg+really1.3.1.orig.tar.gz"
```

```
yay@yay:~$ tar -xvf zlib_1.3.dfsg+really1.3.1.orig.tar.gz
```

```
zlib-1.3.1/old/Makefile.gnu  
zlib-1.3.1/old/visual-basic.txt  
zlib-1.3.1/old/os2/  
zlib-1.3.1/old/os2/zlib.def  
zlib-1.3.1/old/os2/Makefile.os2  
zlib-1.3.1/old/descrip.mms  
zlib-1.3.1/old/Makefile.riscos  
zlib-1.3.1/old/README  
zlib-1.3.1/Makefile  
zlib-1.3.1/inffast.h  
zlib-1.3.1/README  
zlib-1.3.1/gzlib.c  
zlib-1.3.1/Makefile.in  
zlib-1.3.1/make_vms.com  
zlib-1.3.1/contrib/  
zlib-1.3.1/contrib/minizip/  
zlib-1.3.1/contrib/minizip/Makefile.am  
zlib-1.3.1/contrib/minizip/crypt.h  
zlib-1.3.1/contrib/minizip/miniunz.c  
zlib-1.3.1/contrib/minizip/unzip.c  
zlib-1.3.1/contrib/minizip/miniunzip.1  
zlib-1.3.1/contrib/minizip/ioapi.c  
zlib-1.3.1/contrib/minizip/MiniZip64_Changes.txt  
zlib-1.3.1/contrib/minizip/unzip.h  
zlib-1.3.1/contrib/minizip/zip.c  
zlib-1.3.1/contrib/minizip/configure.ac  
zlib-1.3.1/contrib/minizip/minizip.pc.in  
zlib-1.3.1/contrib/minizip/ioapi.h  
zlib-1.3.1/contrib/minizip/zip.h  
zlib-1.3.1/contrib/minizip/iowin32.c  
zlib-1.3.1/contrib/minizip/MiniZip64_info.txt  
zlib-1.3.1/contrib/minizip/minizip.c  
zlib-1.3.1/contrib/minizip/Makefile  
zlib-1.3.1/contrib/minizip/iowin32.h  
zlib-1.3.1/contrib/minizip/mztools.h  
zlib-1.3.1/contrib/minizip/make_vms.com  
zlib-1.3.1/contrib/minizip/minizip.1  
zlib-1.3.1/contrib/minizip/mztools.c  
zlib-1.3.1/ChangeLog  
zlib-1.3.1/LICENSE  
zlib-1.3.1/gzread.c  
zlib-1.3.1/zlib.pc.in  
zlib-1.3.1/uncompr.c  
zlib-1.3.1/nintendods/  
zlib-1.3.1/nintendods/Makefile  
zlib-1.3.1/nintendods/README  
zlib-1.3.1/zutil.h
```

```

15 cd openssl-1.1.1t/
16 ./config --prefix=$HOME/openssl --openssldir=$HOME/openssl shared zilb vim Makefile
17 ./config --prefix=$HOME/openssl --openssldir=$HOME/openssl shared zillb
18 ./config --prefix=$HOME/openssl --openssldir=$HOME/openssl shared zlib
19 make -js
20 make install
21 vim ~/.bashrc
22 echo "$LD_LIBRARY_PATH"
23 echo "$LD_LIBRARY_PATH=$HOME/openssl/lib:$LD_LIBRARY_PATH" >> ~/.bashrc
24 echo "$PATH=$HOME/openssl/bin:$PATH" >> ~/.bashrc
25 source ~/.bashrc
26 echo "$LD_LIBRARY_PATH"
27 echo "$PATH"
28 echo "$LD_LIBRARY_PATH=$HOME/openssl/lib:$LD_LIBRARY_PATH" >> ~/.bashrc
29 source ~/.bashrc
30 cat ~/.bashrc
31 nano ~/.bashrc
32 echo "$LD_LIBRARY_PATH"
33 echo "$PATH"
34 nano ~/.bashrc
35 source ~/.bashrc
36 echo "$LD_LIBRARY_PATH"
37 echo "$PATH"
38 echo "$LD_LIBRARY_PATH"
39 export LDFLAGS="-I$HOME/openssl/lib"
40 echo "$CFLAGS"
41 export CFLAGS="-I$HOME/openssl/lib"
42 echo "$CFLAGS"
43 export CFLAGS="-I$HOME/openssl/include"
44 echo "$CFLAGS"
45 export LDFLAGS="-I$HOME/openssl/lib"
46 echo "$LDFLAGS"
47 cd ..
48 cd Python-3.10.15/
49 ./configure --prefix=$HOME/python3.10 --with-openssl=$HOME/openssl
50 make -j16
51 make install -j16
52 make clean install -j5
53 make install -j10
54 nano ~/.bashrc
55 python3.10 -m ensurepip
56 python3.10 -m pip install --upgrade pip
57 wget https://zlib.net/zlib-1.2.13.tar.gz
58 cd ..
59 wget https://zlib.net/zlib-1.2.13.tar.gz
60 wget "https://archive.ubuntu.com/ubuntu/pool/main/z/zlib/zlib_1.3.dfsg+really1.3.1.orig.tar.gz"
61 wget "https://archive.ubuntu.com/ubuntu/pool/main/z/zlib/zlib_1.3.dfsg+really1.3.1.orig."
62 tar -xvf zlib_1.3.dfsg+really1.3.1.orig.tar.gz

```

```
yay@yay:~$ cd zlib-1.3.1/
```

```
yay@yay:~/zlib-1.3.1$ ./configure --prefix=$HOME/zlib_
```

```

yay@yay:~$ cd zlib-1.3.1/
yay@yay:~/zlib-1.3.1$ ./configure --prefix=$HOME/zlib
checking for gcc...
checking for shared library support...
Building shared library libz.so.1.3.1 with gcc.
checking for size_t... Yes.
checking for off64_t... Yes.
checking for fseeko... Yes.
checking for strerror... Yes.
checking for unistd.h... Yes.
checking for stdarg.h... Yes.
checking whether to use vs[n]printf() or s[n]printf()... using vs[n]printf().
checking for vsnprintf() in stdio.h... Yes.
checking for return value of vsnprintf()... Yes.
checking for attribute(visibility) support... Yes.
yay@yay:~/zlib-1.3.1$ make -j16

```

```

gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -c -o crc32.o crc32.c
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -c -o deflate.o deflate.c
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -c -o infback.o infback.c
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -c -o inffast.o inffast.c
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -c -o inflate.o inflate.c
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -c -o inftrees.o inftrees.c
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -c -o trees.o trees.c
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -c -o zutil.o zutil.c
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -c -o compress.o compress.c
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -c -o uncompr.o uncompr.c
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -c -o gzclose.o gzclose.c
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -c -o gzlib.o gzlib.c
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -c -o gzread.o gzread.c
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -c -o gzwrite.o gzwrite.c
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -I. -c -o minigzip.o test/minigzip.c
gcc -I/home/yay/openssl/include -fPIC -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -DPIC -c -o objs/adler32.o adler32.c
gcc -I/home/yay/openssl/include -fPIC -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -DPIC -c -o objs/crc32.o crc32.c
gcc -I/home/yay/openssl/include -fPIC -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -DPIC -c -o objs/deflate.o deflate.c
gcc -I/home/yay/openssl/include -fPIC -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -DPIC -c -o objs/infback.o infback.c
gcc -I/home/yay/openssl/include -fPIC -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -DPIC -c -o objs/inffast.o inffast.c
gcc -I/home/yay/openssl/include -fPIC -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -DPIC -c -o objs/inflate.o inflate.c
gcc -I/home/yay/openssl/include -fPIC -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -DPIC -c -o objs/inftrees.o inftrees.c
gcc -I/home/yay/openssl/include -fPIC -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -DPIC -c -o objs/trees.o trees.c
gcc -I/home/yay/openssl/include -fPIC -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -DPIC -c -o objs/zutil.o zutil.c
gcc -I/home/yay/openssl/include -fPIC -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -DPIC -c -o objs/compress.o compress.c
gcc -I/home/yay/openssl/include -fPIC -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -DPIC -c -o objs/uncompr.o uncompr.c
gcc -I/home/yay/openssl/include -fPIC -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -DPIC -c -o objs/gzlib.o gzlib.c
gcc -I/home/yay/openssl/include -fPIC -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -DPIC -c -o objs/gzclose.o gzclose.c
gcc -I/home/yay/openssl/include -fPIC -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -DPIC -c -o objs/gzread.o gzread.c
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -I. -D_FILE_OFFSET_BITS=64 -c -o example64.o te
gcc -I/home/yay/openssl/include -fPIC -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -DPIC -c -o objs/gzwrite.o gzwrite.c
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -I. -D_FILE_OFFSET_BITS=64 -c -o minigzip64.o t
ar rc libz.a adler32.o crc32.o deflate.o infback.o inffast.o inflate.o inftrees.o trees.o zutil.o compress.o uncompr.
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -I/home/yay/openssl/lib -o example example.o -L
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -I/home/yay/openssl/lib -o minigzip minigzip.o
gcc -shared -Wl,-soname,libz.so.1,--version-script,zlib.map -I/home/yay/openssl/include -fPIC -D_LARGEFILE64_SOURCE=1
crc32.lo deflate.lo infback.lo inffast.lo inflate.lo inftrees.lo trees.lo zutil.lo compress.lo uncompr.lo gzclose.lo
/home/yay/openssl/lib
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -I/home/yay/openssl/lib -o example64 example64.
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -I/home/yay/openssl/lib -o minigzip64 minigzip6
/usr/bin/ld: error while loading shared libraries: libz.so.1: file too short
collect2: error: ld returned 127 exit status
make: *** [Makefile:297: example64] Error 1
make: *** Waiting for unfinished jobs....
rm -f libz.so libz.so.1
ln -s libz.so.1.3.1 libz.so
ln -s libz.so.1.3.1 libz.so.1
yay@yay:~/zlib-1.3.1$ make install -j16

```

```

gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -I. -D_FILE_OFFSET_BITS=64 -c -o example64.o example64.c
gcc -I/home/yay/openssl/include -fPIC -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -DPIC -c -o objs/gzwrite.o gzwrite.c
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -I. -D_FILE_OFFSET_BITS=64 -c -o minigzip64.o minigzip64.c
ar rc libz.a Adler32.o crc32.o deflate.o infback.o inffast.o inflate.o inftrees.o trees.o zutil.o compress.o uncompress.o
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -I/home/yay/openssl/lib -o example example64.o libz.a
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -I/home/yay/openssl/lib -o minigzip minigzip64.o libz.a
gcc -shared -Wl,-soname,libz.so.1,-version-script,zlib.map -I/home/yay/openssl/include -fPIC -D_LARGEFILE64_SOURCE=1 -D_FILE_OFFSET_BITS=64 -c -o minigzip64.o minigzip64.c
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -I/home/yay/openssl/lib -o example64 example64.o libz.a
gcc -I/home/yay/openssl/include -D_LARGEFILE64_SOURCE=1 -DHAVE_HIDDEN -I/home/yay/openssl/lib -o minigzip64 minigzip64.o libz.a
/usr/bin/ld: error while loading shared libraries: libz.so.1: file too short
collect2: error: ld returned 127 exit status
make: *** [Makefile:297: example64] Error 1
make: *** Waiting for unfinished jobs....
rm -f libz.so libz.so.1
ln -s libz.so.1.3.1 libz.so
ln -s libz.so.1.3.1 libz.so.1
yay@yay:~/zlib-1.3.1$ make install -j16
rm -f /home/yay/zlib/lib/libz.a
cp libz.a /home/yay/zlib/lib
chmod 644 /home/yay/zlib/lib/libz.a
cp libz.so.1.3.1 /home/yay/zlib/lib
chmod 755 /home/yay/zlib/lib/libz.so.1.3.1
rm -f /home/yay/zlib/share/man/man3/zlib.3
cp zlib.3 /home/yay/zlib/share/man/man3
chmod 644 /home/yay/zlib/share/man/man3/zlib.3
rm -f /home/yay/zlib/lib/pkgconfig/zlib.pc
cp zlib.pc /home/yay/zlib/lib/pkgconfig
chmod 644 /home/yay/zlib/lib/pkgconfig/zlib.pc
rm -f /home/yay/zlib/include/zlib.h /home/yay/zlib/include/zconf.h
cp zlib.h zconf.h /home/yay/zlib/include
chmod 644 /home/yay/zlib/include/zlib.h /home/yay/zlib/include/zconf.h
yay@yay:~/zlib-1.3.1$

```

```

rm -f /home/yay/zlib/include/zlib.h /home/yay/zlib/include/zconf.h
cp zlib.h zconf.h /home/yay/zlib/include
chmod 644 /home/yay/zlib/include/zlib.h /home/yay/zlib/include/zconf.h
yay@yay:~/zlib-1.3.1$ cd ~/Python-3.10.15/
yay@yay:~/Python-3.10.15$ ./configure --prefix=$HOME/python3.10 --with-openssl=$HOME/openssl --with-zlib=$HOME/zlib_

```

```

yay@yay:~/Python-3.10.15$ make clean

```

```

yay@yay:~/Python-3.10.15$ make -16_

```



```

e/yay/Python-3.10.15/Include -I/home/yay/Python-3.10.15 -c /home/yay/Python-3.10.15/Modules/_decimal/libmpdec/numbertheor
e/yay/Python-3.10.15/Modules/_decimal/libmpdec/numbertheory.o
gcc -fPIC -Wno-unused-result -Wsign-compare -DDEBUG -g -fwrapv -O3 -Wall -I/home/yay/openssl/include -I/home/yay/openssl/include
result -Wno-unused-parameter -Wno-missing-field-initializers -Werror=implicit-function-declaration -fvisibility=hidden
-I/home/yay/Python-3.10.15/Modules/_decimal/libmpdec -I./Include -I/home/yay/python3.10/include -I. -I/usr/include/x86_64-linux-gn
e/yay/Python-3.10.15/Include -I/home/yay/Python-3.10.15 -c /home/yay/Python-3.10.15/Modules/_decimal/libmpdec/sixstep.o
Python-3.10.15/Modules/_decimal/libmpdec/sixstep.o
gcc -fPIC -Wno-unused-result -Wsign-compare -DDEBUG -g -fwrapv -O3 -Wall -I/home/yay/openssl/include -I/home/yay/openssl/include
result -Wno-unused-parameter -Wno-missing-field-initializers -Werror=implicit-function-declaration -fvisibility=hidden
-I/home/yay/Python-3.10.15/Modules/_decimal/libmpdec -I./Include -I/home/yay/python3.10/include -I. -I/usr/include/x86_64-linux-gn
e/yay/Python-3.10.15/Include -I/home/yay/Python-3.10.15 -c /home/yay/Python-3.10.15/Modules/_decimal/libmpdec/transpose.o
ay/Python-3.10.15/Modules/_decimal/libmpdec/transpose.o
gcc -shared -I/home/yay/openssl/lib -I/home/yay/openssl/lib -I/home/yay/openssl/lib -I/home/yay/openssl/include build/tem
0.15/Modules/_decimal/_decimal.o build/temp.linux-x86_64-3.10/home/yay/Python-3.10.15/Modules/_decimal/libmpdec/base64.o
y/Python-3.10.15/Modules/_decimal/libmpdec/constants.o build/temp.linux-x86_64-3.10/home/yay/Python-3.10.15/Modules/_decim
-x86_64-3.10/home/yay/Python-3.10.15/Modules/_decimal/libmpdec/convolute.o build/temp.linux-x86_64-3.10/home/yay/Python-3.10.15/Modules/_decim
build/temp.linux-x86_64-3.10/home/yay/Python-3.10.15/Modules/_decimal/libmpdec/difradix2.o build/temp.linux-x86_64-3.10/home/yay/Python-3.10.15/Modules/_decim
/libmpdec/fnt.o build/temp.linux-x86_64-3.10/home/yay/Python-3.10.15/Modules/_decimal/libmpdec/fourstep.o build/temp.linux-x86_64-3.10/home/yay/Python-3.10.15/Modules/_decim
odules/_decimal/libmpdec/io.o build/temp.linux-x86_64-3.10/home/yay/Python-3.10.15/Modules/_decimal/libmpdec/mpalloc.o build/temp.linux-x86_64-3.10/home/yay/Python-3.10.15/Modules/_decim
hon-3.10.15/Modules/_decimal/libmpdec/mpdecimal.o build/temp.linux-x86_64-3.10/home/yay/Python-3.10.15/Modules/_decimal/libmpdec/sixstep.o build/temp.linux-x86_64-3.10/home/yay/Python-3.10.15/Modules/_decim
e.o -L/home/yay/python3.10/lib -L/usr/lib/x86_64-linux-gnu -L/usr/local/lib -lm -o build/lib.linux-x86_64-3.10/_decimal/libmpdec.so

```

The necessary bits to build these optional modules were not found:

_dbm	_gdbm	_hashlib
_lzma	_sqlite3	_ssl
_tkinter	_uuid	nis

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
------	-----	------

Could not build the ssl module!

Python requires a OpenSSL 1.1.1 or newer

running build\_scripts

copying and adjusting /home/yay/Python-3.10.15/Tools/scripts/pydoc3 -> build/scripts-3.10

copying and adjusting /home/yay/Python-3.10.15/Tools/scripts/idle3 -> build/scripts-3.10

copying and adjusting /home/yay/Python-3.10.15/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-3.10/2to3.10

yay@yay:~/Python-3.10.15\$ make install

```
yay@yay:~/Python-3.10.15$ make install
```

```
if test "no-framework" = "no-framework" ; then \
```

```
    /usr/bin/install -c python /home/yay/python3.10/bin/python3.10; \
```

```
else \
```

```
    /usr/bin/install -c -s Mac/pythonw /home/yay/python3.10/bin/python3.10; \
```

```
fi
```

```
/usr/bin/install: cannot remove '/home/yay/python3.10/bin/python3.10': Permission denied
```

```
make: *** [Makefile:1329: altbininstall] Error 1
```

```
yay@yay:~/Python-3.10.15$ make install
```

```

36 echo "$LD_LIBRARY_PATH"
37 echo "$PATH"
38 echo "$LD_LIBRARY_PATH"
39 export LDFLAGS="-I$HOME/openssl/lib"
40 echo "$CFLAGS"
41 export CFLAGS="-I$HOME/openssl/lib"
42 echo "$CFLAGS"
43 export CFLAGS="-I$HOME/openssl/include"
44 echo "$CFLAGS"
45 export LDFLAGS="-I$HOME/openssl/lib"
46 echo "$LDFLAGS"
47 cd ..
48 cd Python-3.10.15/
49 ./configure --prefix=$HOME/python3.10 --with-openssl=$HOME/openssl
50 make -j16
51 make install -j16
52 make clean install -j5
53 make install -j10
54 nano ~/.bashrc
55 python3.10 -m ensurepip
56 python3.10 -m pip install --upgrade pip
57 wget https://zlib.net/zlib-1.2.13.tar.gz
58 cd ..
59 wget https://zlib.net/zlib-1.2.13.tar.gz
60 wget "https://archive.ubuntu.com/ubuntu/pool/main/z/zlib/zlib_1.3.dfsg+really1.3.1.orig.tar.gz"
61 wget "https://archive.ubuntu.com/ubuntu/pool/main/z/zlib/zlib_1.3.dfsg+really1.3.1.orig.tar.gz"
62 tar -xvf zlib_1.3.dfsg+really1.3.1.orig.tar.gz
63 history
64 cd zlib-1.2.13
65 cd zlib-1.2.13/
66 ls
67 cd zlib-1.3.1/
68 ./configure --prefix=$HOME/zlib
69 make -j16
70 make install -j16
71 cd ~/Python-3.10.15/
72 ./configure --prefix=$HOME/python3.10 --with-openssl=$HOME/openssl --with-zlib=$HOME/zlib
73 make clean
74 make -j16
75 make -j16
76 make install
77 nano ~/.bashrc
78 make install
79 ls -l /home/yay/python3.10/bin/
80 whoami
81 cd ~/Python-3.10.15
82 make clean

```

```

export LD_LIBRARY_PATH=$HOME/openssl/lib:$LD_LIBRARY_PATH
export PATH=$HOME/openssl/bin:$HOME/python3.10/bin:$PATH

```

```

yay@yay:~/Python-3.10.15$ source ~/.bashrc
yay@yay:~/Python-3.10.15$ echo $LD_LIBRARY_PATH
/home/yay/zlib/lib:/home/yay/openssl/lib:/home/yay/openssl/lib:
yay@yay:~/Python-3.10.15$ echo $PATH
/home/yay/python3.10/bin:/home/yay/openssl/bin:/home/yay/openssl/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin
yay@yay:~/Python-3.10.15$ echo $LDFLAGS
-L/home/yay/zlib/lib
yay@yay:~/Python-3.10.15$ echo $CPPFLAGS
-I/home/yay/zlib/include
yay@yay:~/Python-3.10.15$

```

```
# sources /etc/bash.bashrc).
if ! shopt -oq posix; then
  if [ -f /usr/share/bash-completion/bash_completion ]; then
    . /usr/share/bash-completion/bash_completion
  elif [ -f /etc/bash_completion ]; then
    . /etc/bash_completion
  fi
fi

export LD_LIBRARY_PATH=$HOME/openssl/lib:$LD_LIBRARY_PATH
export PATH=$HOME/openssl/bin:$PATH

export PATH=$HOME/python3.10/bin:$PATH

export LD_FLAGS="-L$HOME/zlib/lib"
export CPPFLAGS="-I$HOME/zlib/include"
export LD_LIBRARY_PATH=$HOME/zlib/lib:$LD_LIBRARY_PATH

yay@yay:~/Python-3.10.15$ source ~/.bashrc
yay@yay:~/Python-3.10.15$ echo $LD_LIBRARY_PATH
/home/yay/zlib/lib:/home/yay/openssl/lib:
yay@yay:~/Python-3.10.15$ echo $PATH
/home/yay/python3.10/bin:/home/yay/openssl/bin:/home/yay/openssl/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/usr/sbin:/usr/bin
yay@yay:~/Python-3.10.15$ echo $LD_FLAGS
-L/home/yay/zlib/lib
yay@yay:~/Python-3.10.15$ echo $CPPFLAGS
-I/home/yay/zlib/include
```

```
yay@yay:~/Python-3.10.15$ ./configure --prefix=$HOME/python3.10 --with-openssl=$HOME/openssl --with-zlib=$HOME/zlib
configure: WARNING: unrecognized options: --with-zlib
checking build system type... x86_64-pc-linux-gnu
checking host system type... x86_64-pc-linux-gnu
checking for python3.10... python3.10
checking for --enable-universalsdk... no
checking for --with-universal-archs... no
checking MACHDEP... "linux"
checking for gcc... gcc
checking whether the C compiler works... no
configure: error: in `~/home/yay/Python-3.10.15':
configure: error: C compiler cannot create executables
See `config.log' for more details
```

```
yay@yay:~/Python-3.10.15$ ./configure --prefix=$HOME/python3.10 --with-openssl=$HOME/openssl --with-zlib=$HOME/zlib
configure: WARNING: unrecognized options: --with-zlib
checking build system type... x86_64-pc-linux-gnu
checking host system type... x86_64-pc-linux-gnu
checking for python3.10... python3.10
checking for --enable-universalsdk... no
checking for --with-universal-archs... no
checking MACHDEP... "linux"
checking for gcc... gcc
checking whether the C compiler works... no
configure: error: in `~/home/yay/Python-3.10.15':
configure: error: C compiler cannot create executables
See `config.log' for more details
yay@yay:~/Python-3.10.15$
```

```
checking for --enable-universalsdk... no
checking for --with-universal-archs... no
checking MACHDEP... "linux"
checking for gcc... gcc
checking whether the C compiler works... no
configure: error: in `~/home/yay/Python-3.10.15':
configure: error: C compiler cannot create executables
See `config.log' for more details
yay@yay:~/Python-3.10.15$ sudo apt-get update
```

```
yay@yay:~/Python-3.10.15$ sudo apt-get update
[sudo] password for yay:
Get:1 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Hit:2 http://in.archive.ubuntu.com/ubuntu noble InRelease
Get:3 http://in.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:4 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [7,208 B]
Get:5 http://in.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:6 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [208 B]
Get:7 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [51.9 kB]
Get:8 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 B]
Get:9 http://in.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [783 kB]
Get:10 http://in.archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [151 kB]
Get:11 http://in.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]
Get:12 http://in.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [977 kB]
Get:13 http://in.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [313 kB]
Get:14 http://in.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]
Get:15 http://in.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [208 B]
Get:16 http://in.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [212 B]
Get:17 http://in.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [17.7 kB]
Get:18 http://in.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Fetched 2,681 kB in 14s (193 kB/s)
Reading package lists... Done
```

```
yay@yay:~/Python-3.10.15$ sudo apt-get install build-essential
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
build-essential is already the newest version (12.10ubuntu1).
0 upgraded, 0 newly installed, 0 to remove and 3 not upgraded.
```

```
yay@yay:~/Python-3.10.15$ ./configure --prefix=$HOME/python3.10 --with-openssl=$HOME/openssl --with-zlib=$HOME/zlib
configure: WARNING: unrecognized options: --with-zlib
checking build system type... x86_64-pc-linux-gnu
checking host system type... x86_64-pc-linux-gnu
checking for python3.10... python3.10
checking for --enable-universalsdk... no
checking for --with-universal-archs... no
checking MACHDEP... "linux"
checking for gcc... gcc
checking whether the C compiler works... no
configure: error: in `/home/yay/Python-3.10.15':
configure: error: C compiler cannot create executables
See `configure.log' for more details
```

```
YAY (Snapshot 2) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

File "<string>", line 1
  import ssl; print(hello
                        ^
SyntaxError: '(' was never closed
yay@yay:~/python3.10/bin$
yay@yay:~/python3.10/bin$ ./python3 -c 'import ssl; print("hello world")'
hello world
yay@yay:~/python3.10/bin$ ./python3 -c 'import zlib; print("hello world")'
hello world
yay@yay:~/python3.10/bin$ ./python3 -c 'import zli^C print("hello world")'
yay@yay:~/python3.10/bin$ ^C
yay@yay:~/python3.10/bin$ cd ~
yay@yay:~$
yay@yay:~$
yay@yay:~$ mkdir assignment3
yay@yay:~$
yay@yay:~$ cd assignment
-bash: cd: assignment: No such file or directory
yay@yay:~$ cd assignment3
yay@yay:~/assignment3$
yay@yay:~/assignment3$
yay@yay:~/assignment3$ ~/python3.10/bin/python3 -m venv venv
yay@yay:~/assignment3$ source venv/bin/activate
(venv) yay@yay:~/assignment3$
(venv) yay@yay:~/assignment3$ pip install --upgrade pip
Requirement already satisfied: pip in ./venv/lib/python3.10/site-packages (23.0.1)
Collecting pip
  Downloading pip-24.3.1-py3-none-any.whl (1.8 MB)
    1.8/1.8 MB 3.5 MB/s eta 0:00:00
Installing collected packages: pip
  Attempting uninstall: pip
    Found existing installation: pip 23.0.1
    Uninstalling pip-23.0.1:
      Successfully uninstalled pip-23.0.1
Successfully installed pip-24.3.1
(venv) yay@yay:~/assignment3$
(venv) yay@yay:~/assignment3$ pip installl label-studio
ERROR: unknown command "installl" - maybe you meant "install"
(venv) yay@yay:~/assignment3$ pip install label-studio
Collecting label-studio
  Downloading label_studio-1.15.0-py3-none-any.whl.metadata (14 kB)
Collecting Django<4.3.0,>=4.2.13 (from label-studio)
  Downloading Django-4.2.18-py3-none-any.whl.metadata (4.1 kB)
Collecting appdirs>=1.4.3 (from label-studio)
  Downloading appdirs-1.4.4-py2.py3-none-any.whl.metadata (9.0 kB)
Collecting attr==0.3.1 (from label-studio)
  Downloading attr-0.3.1.tar.gz (1.7 kB)
Installing build dependencies ... done
```

```

-ranged-fileresponse, boto, attr, appdirs, zipp, wrapt, wheel, urllib3, uritemplate, ujson, ua-parser-builtins, tzdata,
lparse, sniffio, six, setuptools, semver, rstr, rpsd-py, regex, redis, pyyaml, python-json-logger, pygments, pycparser,
ormdirs, Pillow, pathspec, packaging, ordered-set, numpy, mpyy-extensions, mdurl, MarkupSafe, lxml, joblib, jmespath,
, idna, h11, grpcio, google-crc32c, exceptiongroup, dnspython, django-environ, distro, defusedxml, colorama, click, ch
rs, argcomplete, annotated-types, ua-parser, smart-open, sentry-sdk, rsa, rq, requests, referencing, python-dateutil,
nltk, markdown-it-py, lxml-html-clean, launchdarkly-server-sdk, jinja2, importlib-metadata, httpcore, googleapis-com
alidator, deprecated, cffi, bleach, black, asgiref, anyio, user-agents, rich, requests-mock, pydantic, pandas, opente
px, grpcio-status, google-cloud-audit-log, google-auth, faker, Django, cryptography, botocore, azure-core, s3transfer,
iam-v1, google-api-core, drf-generators, django-rest-framework, django-user-agents, django-storages, django-rq, django-r
o-filter, django-extensions, django-debug-toolbar, django-csp, django-cors-headers, django-annoying, azure-storage-blo
-core, datamodel-code-generator, boto3, label-studio-sdk, google-cloud-storage, google-cloud-appengine-logging, google
Attempting uninstall: setuptools
Found existing installation: setuptools 65.5.0
Uninstalling setuptools-65.5.0:
Successfully uninstalled setuptools-65.5.0
Successfully installed Django-4.2.18 MarkupSafe-3.0.2 Pillow-11.1.0 annotated-types-0.7.0 anyio-4.8.0 appdirs-1.4.4 ar
tts-25.1.0 azure-core-1.32.0 azure-storage-blob-12.24.1 black-24.10.0 bleach-5.0.1 boto-2.49.0 boto3-1.36.6 botocore-
cffi-1.17.1 charset-normalizer-3.4.1 click-8.1.8 colorama-0.4.6 cryptography-44.0.0 datamodel-code-generator-0.26.1 d
.9.0 django-annoying-0.10.6 django-cors-headers-3.6.0 django-csp-3.7 django-debug-toolbar-3.2.1 django-environ-0.10.0
0 django-migration-linter-5.1.0 django-model-utils-4.1.1 django-ranged-fileresponse-0.1.2 django-rq-2.5.1 django-stor
restframework-3.15.2 dnspython-2.7.0 drf-dynamic-fields-0.3.0 drf-flex-fields-0.9.5 drf-generators-0.3.0 email-validat
-1.2.2 faker-35.0.0 genson-1.3.0 google-api-core-2.24.0 google-auth-2.38.0 google-cloud-appengine-logging-1.5.0 google
.4.1 google-cloud-logging-3.11.3 google-cloud-storage-2.19.0 google-crc32c-1.6.0 google-resumable-media-2.7.2 googleap
-0.14.0 grpcio-1.70.0 grpcio-status-1.70.0 h11-0.14.0 httpcore-1.0.7 httpx-0.28.1 humansignal-drf-yasg-1.21.10.post1.
5.0 inflect-5.6.2 inflection-0.5.1 isodate-0.7.2 isort-5.13.2 jinja2-3.1.5 jiter-0.8.2 jmespath-1.0.1 joblib-1.4.2 js
fications-2024.10.1 label-studio-1.15.0 label-studio-sdk-1.0.8 launchdarkly-server-sdk-8.2.1 lockfile-0.12.2 lxml-5.3.
.0 mdurl-0.1.2 mpyy-extensions-1.0.0 nltk-3.9.1 numpy-1.26.4 openai-1.60.1 opentelemetry-api-1.29.0 ordered-set-4.0.2
1 platformdirs-4.3.6 proto-plus-1.25.0 protobuf-5.29.3 psycpg2-binary-2.9.1 pyRFC3339-2.0.1 pyasn1-0.6.1 pyasn1-modu
antic-2.10.6 pydantic-core-2.27.2 pygments-2.19.1 python-dateutil-2.9.0.post0 python-json-logger-2.0.4 pytz-2022.7.1 p
, regex-2024.11.6 requests-2.32.3 requests-mock-1.12.1 rich-13.9.4 rpsd-py-0.22.3 rq-1.10.1 rsa-4.9 rstr-3.2.2 rules-3.
k-2.20.0 setuptools-75.8.0 six-1.17.0 smart-open-7.1.0 sniffio-1.3.1 sqlparse-0.5.3 toml-0.10.2 tomlit-2.2.1 tqdm-4.67.
a-parser-1.0.0 ua-parser-builtins-0.18.0.post1 ujson-5.10.0 uritemplate-4.1.1 urllib3-1.26.20 user-agents-2.2.0 webenc
json-0.2.1 zipp-3.21.0
(yenv) yay@yay:~/assignment3$
(yenv) yay@yay:~/assignment3$
(yenv) yay@yay:~/assignment3$ flas

```

```

self.models_module = import_module(models_module_name)
File "/home/yay/python3.10/lib/python3.10/importlib/__init__.py", line 126, in import_module
    return _bootstrap._gcd_import(name[level:], package, level)
File "<frozen importlib._bootstrap>", line 1050, in _gcd_import
File "<frozen importlib._bootstrap>", line 1027, in _find_and_load
File "<frozen importlib._bootstrap>", line 1006, in _find_and_load_unlocked
File "<frozen importlib._bootstrap>", line 688, in _load_unlocked
File "<frozen importlib._bootstrap_external>", line 883, in exec_module
File "<frozen importlib._bootstrap>", line 241, in _call_with_frames_removed
File "/home/yay/assignment3/venv/lib/python3.10/site-packages/django/contrib/auth/models.py", line 3, in <module>
    from django.contrib.auth.base_user import AbstractBaseUser, BaseUserManager
File "/home/yay/assignment3/venv/lib/python3.10/site-packages/django/contrib/auth/base_user.py", line 57, in <module>
    class AbstractBaseUser(models.Model):
File "/home/yay/assignment3/venv/lib/python3.10/site-packages/django/db/models/base.py", line 143, in __new__
    new_class.add_to_class("_meta", Options(meta, app_label))
File "/home/yay/assignment3/venv/lib/python3.10/site-packages/django/db/models/base.py", line 371, in add_to_class
    value.contribute_to_class(cls, name)
File "/home/yay/assignment3/venv/lib/python3.10/site-packages/django/db/models/options.py", line 243, in contribute
    self.db_table, connection.ops.max_name_length()
File "/home/yay/assignment3/venv/lib/python3.10/site-packages/django/utils/connection.py", line 15, in __getattr__
    return getattr(self._connections[self._alias], item)
File "/home/yay/assignment3/venv/lib/python3.10/site-packages/django/utils/connection.py", line 62, in __getitem__
    conn = self.create_connection(alias)
File "/home/yay/assignment3/venv/lib/python3.10/site-packages/django/db/utils.py", line 193, in create_connection
    backend = load_backend(db["ENGINE"])
File "/home/yay/assignment3/venv/lib/python3.10/site-packages/django/db/utils.py", line 113, in load_backend
    return import_module("%s.base" % backend_name)
File "/home/yay/python3.10/lib/python3.10/importlib/__init__.py", line 126, in import_module
    return _bootstrap._gcd_import(name[level:], package, level)
File "/home/yay/assignment3/venv/lib/python3.10/site-packages/django/db/backends/sqlite3/base.py", line 9, in <module>
    from sqlite3 import dbapi2 as Database
File "/home/yay/python3.10/lib/python3.10/sqlite3/__init__.py", line 57, in <module>
    from sqlite3.dbapi2 import *
File "/home/yay/python3.10/lib/python3.10/sqlite3/dbapi2.py", line 27, in <module>
    from _sqlite3 import *
ModuleNotFoundError: No module named '_sqlite3'
entry is attempting to send 2 pending events
aiting up to 2 seconds
ress Ctrl-C to quit
(yenv) yay@yay:~/assignment3$

```

```
checking for pwrite64... yes
checking for tclsh8.7... no
checking for tclsh8.6... tclsh8.6
configure: Version set to 3.46
configure: Release set to 3.46.1
checking for WASI SDK directory... no
checking whether to support threadsafe operation... yes
checking for library containing pthread_create... none required
checking for library containing pthread_mutexattr_init... none required
checking whether to support shared library linked as release mode or not... no
checking whether to use an in-ram database for temporary tables... no
checking if executables have the .exe suffix... unknown
checking for Tcl configuration... configure: WARNING: Can't find Tcl configuration definitions
configure: WARNING: *** Without Tcl the regression tests cannot be executed ***
configure: WARNING: *** Consider using --with-tcl=... to define location of Tcl ***
checking for library containing readline... no
checking for library containing tgetent... -lncurses
checking for readline in -lreadline... yes
checking readline.h usability... no
checking readline.h presence... no
checking for readline.h... no
checking for /usr/include/readline.h... no
checking for /usr/include/readline/readline.h... yes
not using linenoise
checking for library containing fdatsync... none required
checking build type... release
checking zlib.h usability... yes
checking zlib.h presence... yes
checking for zlib.h... yes
checking for library containing deflate... -lz
checking for library containing dlopen... none required
checking whether to support math functions... yes
checking for library containing ceil... -lm
checking whether to support JSON functions... yes
checking whether to support MEMSYS5... no
checking whether to support MEMSYS3... no
checking whether to support FTS3... no
checking whether to support FTS4... no
checking whether to support FTS5... no
checking whether to support LIMIT on UPDATE and DELETE statements... no
checking whether to support GEOPOLY... no
checking whether to support RTREE... no
checking whether to support SESSION... no
configure: creating ./config.status
config.status: creating Makefile
config.status: creating sqlite3.pc
config.status: creating sqlite_cfg.h
config.status: executing libtool commands
(yuan) yuan@yuan:~/sqlite3-3.46.1$
```

```

cp tsrc/sqlite3ext.h .
cp /home/yay/sqlite3-3.46.1/ext/session/sqlite3session.h .
./libtool --mode=compile --tag=CC gcc -I/home/yay/openssl/include -I/home/yay/openssl/include -DSQLITE_OS_UNIX=1 -I.
/sqlite3-3.46.1/ext/rtree -I/home/yay/sqlite3-3.46.1/ext/icu -I/home/yay/sqlite3-3.46.1/ext/fts3 -I/home/yay/sqlite3-
/ext/session -I/home/yay/sqlite3-3.46.1/ext/userauth -D_HAVE_SQLITE_CONFIG_H -DBUILD_sqlite -DNDEBUG -DSQLITE_THREADS
ITE_HAVE_ZLIB=1 -DSQLITE_TEMP_STORE=1 -c sqlite3.c
libtool: compile: gcc -I/home/yay/openssl/include -I/home/yay/openssl/include -DSQLITE_OS_UNIX=1 -I. -I/home/yay/sql
ext/rtree -I/home/yay/sqlite3-3.46.1/ext/icu -I/home/yay/sqlite3-3.46.1/ext/fts3 -I/home/yay/sqlite3-3.46.1/ext/async
home/yay/sqlite3-3.46.1/ext/userauth -D_HAVE_SQLITE_CONFIG_H -DBUILD_sqlite -DNDEBUG -DSQLITE_THREADS=1 -DSQLITE_E
DSQLITE_TEMP_STORE=1 -c sqlite3.c -fPIC -DPIC -o .libs/sqlite3.o
libtool: compile: gcc -I/home/yay/openssl/include -I/home/yay/openssl/include -DSQLITE_OS_UNIX=1 -I. -I/home/yay/sql
ext/rtree -I/home/yay/sqlite3-3.46.1/ext/icu -I/home/yay/sqlite3-3.46.1/ext/fts3 -I/home/yay/sqlite3-3.46.1/ext/async
home/yay/sqlite3-3.46.1/ext/userauth -D_HAVE_SQLITE_CONFIG_H -DBUILD_sqlite -DNDEBUG -DSQLITE_THREADS=1 -DSQLITE_E
DSQLITE_TEMP_STORE=1 -c sqlite3.c -o sqlite3.o >>/dev/null 2>&1
./libtool --mode=link gcc -I/home/yay/openssl/include -I/home/yay/openssl/include -DSQLITE_OS_UNIX=1 -I. -I/home/yay
6.1/ext/rtree -I/home/yay/sqlite3-3.46.1/ext/icu -I/home/yay/sqlite3-3.46.1/ext/fts3 -I/home/yay/sqlite3-3.46.1/ext/a
-I/home/yay/sqlite3-3.46.1/ext/userauth -D_HAVE_SQLITE_CONFIG_H -DBUILD_sqlite -DNDEBUG -DSQLITE_THREADS=1 -DSQLI
B=1 -L/home/yay/openssl/lib -no-undefined -o libsqlite3.la sqlite3.lo -lm -lz \
-rpath "/home/yay/sqlite3-dev/lib" -version-info "8:6:8"
libtool: link: gcc -shared .libs/sqlite3.o -L/home/yay/openssl/lib -lm -lz -Wl,-soname -Wl,libsqlite3.so.0 -o .
libtool: link: (cd ".libs" && rm -f "libsqlite3.so.0" && ln -s "libsqlite3.so.0.8.6" "libsqlite3.so.0")
libtool: link: (cd ".libs" && rm -f "libsqlite3.so" && ln -s "libsqlite3.so.0.8.6" "libsqlite3.so")
libtool: link: ar cru .libs/libsqlite3.a sqlite3.o
ar: `u' modifier ignored since `D' is the default (see `U')
libtool: link: ranlib .libs/libsqlite3.a
libtool: link: ( cd ".libs" && rm -f "libsqlite3.la" && ln -s "../libsqlite3.la" "libsqlite3.la" )
./libtool --mode=link gcc -I/home/yay/openssl/include -I/home/yay/openssl/include -DSQLITE_OS_UNIX=1 -I. -I/home/yay
6.1/ext/rtree -I/home/yay/sqlite3-3.46.1/ext/icu -I/home/yay/sqlite3-3.46.1/ext/fts3 -I/home/yay/sqlite3-3.46.1/ext/a
-I/home/yay/sqlite3-3.46.1/ext/userauth -D_HAVE_SQLITE_CONFIG_H -DBUILD_sqlite -DNDEBUG -DSQLITE_THREADS=1 -DSQLI
B=1 -L/home/yay/openssl/lib -DHAVE_READLINE=1 -I/usr/include/readline -DHAVE_EDITLINE=0 -DHAVE_LINENOISE=0 -DSQLITE
_RTREE -DSQLITE_ENABLE_EXPLAIN_COMMENTS -DSQLITE_ENABLE_UNKNOWN_SQL_FUNCTION -DSQLITE_ENABLE_STMTVTAB -DSQLITE_ENABLE
SQLITE_ENABLE_BYTECODE_VTAB -DSQLITE_ENABLE_OFFSET_SQL_FUNC -DSQLITE_STRICT_SUBTYPE=1 -o sqlite3 \
shell.c sqlite3.c \
-lreadline -lncurses -lm -lz -rpath "/home/yay/sqlite3-dev/lib"
libtool: link: gcc -I/home/yay/openssl/include -I/home/yay/openssl/include -DSQLITE_OS_UNIX=1 -I. -I/home/yay/sqlite3
rtree -I/home/yay/sqlite3-3.46.1/ext/icu -I/home/yay/sqlite3-3.46.1/ext/fts3 -I/home/yay/sqlite3-3.46.1/ext/async -I/
/yay/sqlite3-3.46.1/ext/userauth -D_HAVE_SQLITE_CONFIG_H -DBUILD_sqlite -DNDEBUG -DSQLITE_THREADS=1 -DSQLITE_ENABLE
E_READLINE=1 -I/usr/include/readline -DHAVE_EDITLINE=0 -DHAVE_LINENOISE=0 -DSQLITE_DQS=0 -DSQLITE_ENABLE_FTS4 -DSQLIT
ENTS -DSQLITE_ENABLE_UNKNOWN_SQL_FUNCTION -DSQLITE_ENABLE_STMTVTAB -DSQLITE_ENABLE_DBPAGE_VTAB -DSQLITE_ENABLE_DBSTAT
E_ENABLE_OFFSET_SQL_FUNC -DSQLITE_STRICT_SUBTYPE=1 -o sqlite3 shell.c sqlite3.c -L/home/yay/openssl/lib -lreadline -
qlite3-dev/lib
(venv) yay@yay:~/sqlite3-3.46.1$

```



```

(venv) yay@yay:~/sqlite3-3.46.1$
(venv) yay@yay:~/sqlite3-3.46.1$ make install
/usr/bin/install -c -d /home/yay/sqlite3-dev/lib
./libtool --mode=install /usr/bin/install -c libsqlite3.la /home/yay/sqlite3-dev/lib
libtool: install: /usr/bin/install -c .libs/libsqlite3.so.0.8.6 /home/yay/sqlite3-dev/lib/libsqlite3.so.0.8.6
libtool: install: (cd /home/yay/sqlite3-dev/lib && { ln -s -f libsqlite3.so.0.8.6 libsqlite3.so.0 || { rm -f libsqlite3.so.0; }; })
libtool: install: (cd /home/yay/sqlite3-dev/lib && { ln -s -f libsqlite3.so.0.8.6 libsqlite3.so || { rm -f libsqlite3.so; }; })
libtool: install: /usr/bin/install -c .libs/libsqlite3.lai /home/yay/sqlite3-dev/lib/libsqlite3.la
libtool: install: /usr/bin/install -c .libs/libsqlite3.a /home/yay/sqlite3-dev/lib/libsqlite3.a
libtool: install: chmod 644 /home/yay/sqlite3-dev/lib/libsqlite3.a
libtool: install: ranlib /home/yay/sqlite3-dev/lib/libsqlite3.a
libtool: finish: PATH="/home/yay/assignment3/venv/bin:/home/yay/python3.10/bin:/home/yay/openssl/bin:/home/yay/openssl/bin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin" ldconfig -n /home/yay/sqlite3-dev/lib
-----
Libraries have been installed in:
  /home/yay/sqlite3-dev/lib

If you ever happen to want to link against installed libraries
in a given directory, LIBDIR, you must either use libtool, and
specify the full pathname of the library, or use the '-LLIBDIR'
flag during linking and do at least one of the following:
- add LIBDIR to the 'LD_LIBRARY_PATH' environment variable
  during execution
- add LIBDIR to the 'LD_RUN_PATH' environment variable
  during linking
- use the '-Wl,-rpath -Wl,LIBDIR' linker flag
- have your system administrator add LIBDIR to '/etc/ld.so.conf'

See any operating system documentation about shared libraries for
more information, such as the ld(1) and ld.so(8) manual pages.
-----
/usr/bin/install -c -d /home/yay/sqlite3-dev/bin
./libtool --mode=install /usr/bin/install -c sqlite3 /home/yay/sqlite3-dev/bin
libtool: install: /usr/bin/install -c sqlite3 /home/yay/sqlite3-dev/bin/sqlite3
/usr/bin/install -c -d /home/yay/sqlite3-dev/include
/usr/bin/install -c -m 0644 sqlite3.h /home/yay/sqlite3-dev/include
/usr/bin/install -c -m 0644 /home/yay/sqlite3-3.46.1/src/sqlite3ext.h /home/yay/sqlite3-dev/include
/usr/bin/install -c -d /home/yay/sqlite3-dev/lib/pkgconfig
/usr/bin/install -c -m 0644 sqlite3.pc /home/yay/sqlite3-dev/lib/pkgconfig
(venv) yay@yay:~/sqlite3-3.46.1$

(venv) yay@yay:~/Python-3.10.15$
(venv) yay@yay:~/Python-3.10.15$ export LDFLAGS="-L$HOME/openssl/lib -L$HOME/sqlite3-dev/lib"
(venv) yay@yay:~/Python-3.10.15$ export CPPFLAGS="-I$HOME/openssl/include -I$HOME/sqlite3-dev/include"
(venv) yay@yay:~/Python-3.10.15$

```

```

checking for has_key... yes
checking for typeahead... yes
checking for use_env... yes
configure: checking for device files
checking for /dev/ptmx... yes
checking for /dev/ptc... no
checking for %zd printf() format support... yes
checking for socklen_t... yes
checking for broken mbstowcs... no
checking for --with-computed-gotos... no value specified
checking whether gcc supports computed gotos... yes
checking for build directories... done
checking for -O2... yes
checking for glibc _FORTIFY_SOURCE/memmove bug... no
checking for gcc ipa-pure-const bug... no
checking for stdatomic.h... yes
checking for builtin __atomic_load_n and __atomic_store_n functions... yes
checking for ensurepip... upgrade
checking if the dirent structure of a d_type field... yes
checking for the Linux getrandom() syscall... yes
checking for the getrandom() function... yes
checking for library containing shm_open... none required
checking for sys/mman.h... (cached) yes
checking for shm_open... yes
checking for shm_unlink... yes
checking for openssl/ssl.h in /home/yay/openssl... yes
checking whether compiling and linking against OpenSSL works... yes
checking for --with-openssl-rpath...
checking whether OpenSSL provides required APIs... yes
checking for --with-ssl-default-suites... python
checking for --with-builtin-hashlib-hashes... md5,sha1,sha256,sha512,sha3,blake2
checking for --with-experimental-isolated-subinterpreters... no
checking for --with-static-libpython... yes
checking for --disable-test-modules... no
configure: creating ./config.status
config.status: creating Makefile.pre
config.status: creating Misc/python.pc
config.status: creating Misc/python-embed.pc
config.status: creating Misc/python-config.sh
config.status: creating Modules/ld_so_aix
config.status: creating pyconfig.h
config.status: pyconfig.h is unchanged
creating Modules/Setup.local
creating Makefile

```

```

python 3.10.13
(venv) yay@yay:~/assignment3$ ~/python3.10/bin/python3 -m venv venv
source(venv) yay@yay:~/assignment3$ source venv/bin/activate
(venv) yay@yay:~/assignment3$
(venv) yay@yay:~/assignment3$
(venv) yay@yay:~/assignment3$
(venv) yay@yay:~/assignment3$ pip install label-studio
Collecting label-studio
  Downloading label_studio-1.15.0-py3-none-any.whl (60.6 MB)
    60.5/60.6 MB 36.2 MB/s eta 0:00:01

```

```

Collecting mdurl<0.1
  Downloading mdurl-0.1.2-py3-none-any.whl (10.0 kB)
Collecting pyasn1<0.7.0,>=0.4.6
  Downloading pyasn1-0.6.1-py3-none-any.whl (83 kB)
      83.1/83.1 kB 3.2 MB/s eta 0:00:00
Collecting email-validator>=2.0.0
  Downloading email_validator-2.2.0-py3-none-any.whl (33 kB)
Collecting ua-parser-builtins
  Downloading ua_parser_builtins-0.18.0.post1-py3-none-any.whl (86 kB)
      86.1/86.1 kB 15.8 MB/s eta 0:00:00
Collecting dnspython>=2.0.0
  Downloading dnspython-2.7.0-py3-none-any.whl (313 kB)
      313.6/313.6 kB 6.0 MB/s eta 0:00:00
Installing collected packages: xmljson, webencodings, rules, pytz, pyRFC3339, lockfile, ijson, genson, expiringdict,
-ranged-fileresponse, boto, attr, appdirs, zipp, wrapt, wheel, urllib3, uritemplate, ujson, ua-parser-builtins, tzda
lparse, sniffio, six, setuptools, semver, rstr, rpds-py, regex, redis, pyyaml, python-json-logger, pygments, pycpars
ormdirs, Pillow, pathspec, packaging, ordered-set, numpy, mpyy-extensions, mdurl, MarkupSafe, lxml, joblib, jmespath
, idna, h11, grpcio, google-crc32c, exceptiongroup, dnspython, django-environ, distro, defusedxml, colorama, click, c
rs, argcomplete, annotated-types, ua-parser, smart-open, sentry-sdk, rsa, rq, requests, referencing, python-dateutil
, nltk, markdown-it-py, launchdarkly-server-sdk, jinja2, importlib-metadata, httpcore, googleapis-common-protos, googl
ted, cffi, bleach, black, asgiref, anyio, user-agents, rich, requests-mock, pydantic, pandas, opentelemetry-api, jso
, google-cloud-audit-log, google-auth, faker, Django, cryptography, botocore, azure-core, s3transfer, pyboxen, opena
i-core, drf-generators, djangorestframework, django-user-agents, django-storages, django-rq, django-model-utils, dja
extensions, django-debug-toolbar, django-csp, django-cors-headers, django-annoying, azure-storage-blob, jsf, humansig
code-generator, boto3, label-studio-sdk, google-cloud-storage, google-cloud-appengine-logging, google-cloud-logging,
  Attempting uninstall: setuptools
    Found existing installation: setuptools 65.5.0
    Uninstalling setuptools-65.5.0:
      Successfully uninstalled setuptools-65.5.0

lpars, sniffio, six, setuptools, semver, rstr, rpds-py, regex, redis, pyyaml, python-json-logger, pygments, pycpars
ormdirs, Pillow, pathspec, packaging, ordered-set, numpy, mpyy-extensions, mdurl, MarkupSafe, lxml, joblib, jmespath
, idna, h11, grpcio, google-crc32c, exceptiongroup, dnspython, django-environ, distro, defusedxml, colorama, click, c
rs, argcomplete, annotated-types, ua-parser, smart-open, sentry-sdk, rsa, rq, requests, referencing, python-dateutil
, nltk, markdown-it-py, launchdarkly-server-sdk, jinja2, importlib-metadata, httpcore, googleapis-common-protos, googl
ted, cffi, bleach, black, asgiref, anyio, user-agents, rich, requests-mock, pydantic, pandas, opentelemetry-api, jso
, google-cloud-audit-log, google-auth, faker, Django, cryptography, botocore, azure-core, s3transfer, pyboxen, opena
i-core, drf-generators, djangorestframework, django-user-agents, django-storages, django-rq, django-model-utils, dja
extensions, django-debug-toolbar, django-csp, django-cors-headers, django-annoying, azure-storage-blob, jsf, humansig
code-generator, boto3, label-studio-sdk, google-cloud-storage, google-cloud-appengine-logging, google-cloud-logging,
  Attempting uninstall: setuptools
    Found existing installation: setuptools 65.5.0
    Uninstalling setuptools-65.5.0:
      Successfully uninstalled setuptools-65.5.0
Successfully installed Django-4.2.18 MarkupSafe-3.0.2 Pillow-11.1.0 annotated-types-0.7.0 anyio-4.8.0 appdirs-1.4.4 a
ttrs-25.1.0 azure-core-1.32.0 azure-storage-blob-12.24.1 black-24.10.0 bleach-5.0.1 boto-2.49.0 boto3-1.36.6 botocore
, cffi-1.17.1 charset-normalizer-3.4.1 click-8.1.8 colorama-0.4.6 cryptography-44.0.0 datamodel-code-generator-0.26.1
.9.0 django-annoying-0.10.6 django-cors-headers-3.6.0 django-csp-3.7 django-debug-toolbar-3.2.1 django-environ-0.10.0
0 django-migration-linter-5.1.0 django-model-utils-4.1.1 django-ranged-fileresponse-0.1.2 django-rq-2.5.1 django-stor
restframework-3.15.2 dnspython-2.7.0 drf-dynamic-fields-0.3.0 drf-flex-fields-0.9.5 drf-generators-0.3.0 email-valida
-1.2.2 faker-35.0.0 genson-1.3.0 google-api-core-2.24.0 google-auth-2.38.0 google-cloud-appengine-logging-1.5.0 googl
.4.1 google-cloud-logging-3.11.3 google-cloud-storage-2.19.0 google-crc32c-1.6.0 google-resumable-media-2.7.2 googlele
-0.14.0 grpcio-1.70.0 grpcio-status-1.70.0 h11-0.14.0 httpcore-1.0.7 httpx-0.28.1 humansignal-drf-yasg-1.21.10.post1
5.0 inflect-5.6.2 inflection-0.5.1 isodate-0.7.2 isort-5.13.2 jinja2-3.1.5 jiter-0.8.2 jmespath-1.0.1 joblib-1.4.2 js
fications-2024.10.1 label-studio-1.15.0 label-studio-sdk-1.0.8 launchdarkly-server-sdk-8.2.1 lockfile-0.12.2 lxml-5.3
tensions-1.0.0 nltk-3.9.1 numpy-1.26.4 openai-1.60.1 opentelemetry-api-1.29.0 ordered-set-4.0.2 packaging-24.2 pandas
oto-plus-1.25.0 protobuf-5.29.3 psycpg2-binary-2.9.10 pyRFC3339-2.0.1 pyasn1-0.6.1 pyasn1-modules-0.4.1 pyboxen-1.3
core-2.27.2 pygments-2.19.1 python-dateutil-2.9.0.post0 python-json-logger-2.0.4 pytz-2022.7.1 pyyaml-6.0.2 redis-3.5
sts-2.32.3 requests-mock-1.12.1 rich-13.9.4 rpds-py-0.22.3 rq-1.10.1 rsa-4.9 rstr-3.2.2 rules-3.4 s3transfer-0.11.2 s
.8.0 six-1.17.0 smart-open-7.1.0 sniffio-1.3.1 sqlparse-0.5.3 toml-0.10.2 tomli-2.2.1 tqdm-4.67.1 typing_extensions-4
er-builtins-0.18.0.post1 ujson-5.10.0 uritemplate-4.1.1 urllib3-1.26.20 user-agents-2.2.0 webencodings-0.5.1 wheel-0.
[notice] A new release of pip is available: 23.0.1 -> 24.3.1
[notice] To update, run: pip install --upgrade pip
(wenv) uau@uau:~/assignment3$

```

```

[notice] A new release of pip is available: 23.0.1 -> 24.3.1
[notice] To update, run: pip install --upgrade pip
(venv) yay@yay:~/assignment3$
(venv) yay@yay:~/assignment3$ label-studio start
=> Database and media directory: /home/yay/.local/share/label-studio
=> Static URL is set to: /static/
=> Database and media directory: /home/yay/.local/share/label-studio
=> Static URL is set to: /static/
Read environment variables from: /home/yay/.local/share/label-studio/.env
get 'SECRET_KEY' casted as '<class 'str'>' with default ''
Starting new HTTPS connection (1): pypi.org:443
https://pypi.org:443 "GET /pypi/label-studio/json HTTP/1.1" 200 33651
Initializing database..
January 25, 2025 - 22:27:47
Django version 4.2.18, using settings 'label_studio.core.settings.label_studio'
Starting development server at http://0.0.0.0:8080/
Quit the server with CONTROL-C.

```

```

[notice] To update, run: pip install --upgrade pip
(venv) yay@yay:~/assignment3$
(venv) yay@yay:~/assignment3$ label-studio start
=> Database and media directory: /home/yay/.local/share/label-studio
=> Static URL is set to: /static/
=> Database and media directory: /home/yay/.local/share/label-studio
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```

```

[notice] To update, run: pip install --upgrade pip
(venv) yay@yay:~/assignment3$
(venv) yay@yay:~/assignment3$ label-studio start
=> Database and media directory: /home/yay/.local/share/label-studio
=> Static URL is set to: /static/
=> Database and media directory: /home/yay/.local/share/label-studio
=> Static URL is set to: /static/
Read environment variables from: /home/yay/.local/share/label-studio/.env
get 'SECRET_KEY' casted as '<class 'str'>' with default ''
Starting new HTTPS connection (1): pypi.org:443
https://pypi.org:443 "GET /pypi/label-studio/json HTTP/1.1" 200 33651
Initializing database..
January 25, 2025 - 22:27:47
Django version 4.2.18, using settings 'label_studio.core.settings.label_studio'
Starting development server at http://0.0.0.0:8080/
Quit the server with CONTROL-C.

```

localhost8080/projects/?page=1

**Label Studio** Projects Create PA

NLP_Parthiv ***			
20			
/	20	0	0
20			
24 Jan '25, 15:10 PA			

# HISTORY

```
15 cd openssl-1.1.1t/
16 ./config --prefix=$HOME/openssl --openssldir=$HOME/openssl shared zilb vim Makefile
17 ./config --prefix=$HOME/openssl --openssldir=$HOME/openssl shared zillb
18 ./config --prefix=$HOME/openssl --openssldir=$HOME/openssl shared zlib
19 make -js
20 make install
21 vim ~/.bashrc
22 echo "$LD_LIBRARY_PATH"
23 echo "$LD_LIBRARY_PATH=$HOME/openssl/lib:$LD_LIBRARY_PATH" >> ~/.bashrc
24 echo "$PATH=$HOME/openssl/bin:$PATH" >> ~/.bashrc
25 source ~/.bashrc
26 echo "$LD_LIBRARY_PATH"
27 echo "$PATH"
28 echo "$LD_LIBRARY_PATH=$HOME/openssl/lib:$LD_LIBRARY_PATH" >> ~/.bashrc
29 source ~/.bashrc
30 cat ~/.bashrc
31 nano ~/.bashrc
32 echo "$LD_LIBRARY_PATH"
33 echo "$PATH"
34 nano ~/.bashrc
35 source ~/.bashrc
36 echo "$LD_LIBRARY_PATH"
37 echo "$PATH"
38 echo "$LD_LIBRARY_PATH"
39 export LDFLAGS="-I$HOME/openssl/lib"
40 echo "$CFLAGS"
41 export CFLAGS="-I$HOME/openssl/lib"
42 echo "$CFLAGS"
43 export CFLAGS="-I$HOME/openssl/include"
44 echo "$CFLAGS"
45 export LDFLAGS="-I$HOME/openssl/lib"
46 echo "$LDFLAGS"
47 cd ..
48 cd Python-3.10.15/
49 ./configure --prefix=$HOME/python3.10 --with-openssl=$HOME/openssl
50 make -j16
51 make install -j16
52 make clean install -j5
53 make install -j10
54 nano ~/.bashrc
55 python3.10 -m ensurepip
56 python3.10 -m pip install --upgrade pip
57 wget https://zlib.net/zlib-1.2.13.tar.gz
58 cd ..
59 wget https://zlib.net/zlib-1.2.13.tar.gz
60 wget "https://archive.ubuntu.com/ubuntu/pool/main/z/zlib/zlib_1.3.dfsg+really1.3.1.orig.tar.gz"
61 wget "https://archive.ubuntu.com/ubuntu/pool/main/z/zlib/zlib_1.3.dfsg+really1.3.1.orig."
62 tar -xvf zlib_1.3.dfsg+really1.3.1.orig.tar.gz
```

```
36 echo "$LD_LIBRARY_PATH"
37 echo "$PATH"
38 echo "$LD_LIBRARY_PATH"
39 export LDFLAGS="-I$HOME/openssl/lib"
40 echo "$CFLAGS"
41 export CFLAGS="-I$HOME/openssl/lib"
42 echo "$CFLAGS"
43 export CFLAGS="-I$HOME/openssl/include"
44 echo "$CFLAGS"
45 export LDFLAGS="-I$HOME/openssl/lib"
46 echo "$LDFLAGS"
47 cd ..
48 cd Python-3.10.15/
49 ./configure --prefix=$HOME/python3.10 --with-openssl=$HOME/openssl
50 make -j16
51 make install -j16
52 make clean install -j5
53 make install -j10
54 nano ~/.bashrc
55 python3.10 -m ensurepip
56 python3.10 -m pip install --upgrade pip
57 wget https://zlib.net/zlib-1.2.13.tar.gz
58 cd ..
59 wget https://zlib.net/zlib-1.2.13.tar.gz
60 wget "https://archive.ubuntu.com/ubuntu/pool/main/z/zlib/zlib_1.3.dfsg+really1.3.1.orig.tar.gz"
61 wget "https://archive.ubuntu.com/ubuntu/pool/main/z/zlib/zlib_1.3.dfsg+really1.3.1.orig.tar.gz"
62 tar -xvf zlib_1.3.dfsg+really1.3.1.orig.tar.gz
63 history
64 cd zlib-1.2.13
65 cd zlib-1.2.13/
66 ls
67 cd zlib-1.3.1/
68 ./configure --prefix=$HOME/zlib
69 make -j16
70 make install -j16
71 cd ~/Python-3.10.15/
72 ./configure --prefix=$HOME/python3.10 --with-openssl=$HOME/openssl --with-zlib=$HOME/zlib
73 make clean
74 make -16
75 make -j16
76 make install
77 nano ~/.bashrc
78 make install
79 ls -l /home/yay/python3.10/bin/
80 whoami
81 cd ~/Python-3.10.15
82 make clean
```