```
In [3]: name1='fine'
        name1=name1[1:]
        name1='d'+name1
        print(name1)
```

```
dine
```

```
In [4]: help()
```

```
Welcome to Python 3.13's help utility! If this is your first time using
Python, you should definitely check out the tutorial at
https://docs.python.org/3.13/tutorial/.

Enter the name of any module, keyword, or topic to get help on writing
Python programs and using Python modules.  To get a list of available
modules, keywords, symbols, or topics, enter "modules", "keywords",
"symbols", or "topics".

Each module also comes with a one-line summary of what it does; to list
the modules whose name or summary contain a given string such as "spam",
enter "modules spam".

To quit this help utility and return to the interpreter,
enter "q", "quit" or "exit".

No Python documentation found for 'List'.
Use help() to get the interactive help utility.
Use help(str) for help on the str class.

Please wait a moment while I gather a list of all available modules...
```

```
C:\Users\jdany\anacon\Lib\site-packages\nltk\twitter\__init__.py:20: UserWarning:
The twython library has not been installed. Some functionality from the twitter p
ackage will not be available.
  warnings.warn(
C:\Users\jdany\anacon\Lib\site-packages\pydantic\experimental\__init__.py:7: Pyda
nticExperimentalWarning:

This module is experimental, its contents are subject to change and deprecation.

C:\Users\jdany\anacon\Lib\pkgutil.py:78: UserWarning:

The superqt.qtcompat module is deprecated as of v0.3.0. Please import from `qtpy`
instead.
```

```
3204bda914b7f2c6f497__mypyc click               markupsafe          site
IPython             cloudpickle         marshal             six
OpenSSL             cmath               math                skimage
PIL                 cmd                 matplotlib          sklearn
PyQt5               code                matplotlib_inline   sklearn_compat
__future__          codecs              mccabe              slugify
__hello__           codeop              mdit_py_plugins     smmap
__phello__          collections         mdurl               smtplib
_abc                colorama            menuinst            sniffio
_aix_support        colorcet            mimetypes           snowballstemmer
_android_support    colorsys            mistune             socket
_apple_support      comm                mkl                 socketserver
_argon2_cffi_bindings commctrl            mkl_fft             socks
_ast                compileall          mkl_random          sockshandler
_asyncio            concurrent          mmap                sortedcontainers
_bisect             conda               mmapfile            soupsieve
_black_version      conda_anaconda_telemetry mmsystem            sphinx
_blake2             conda_anaconda_tos  modulefinder        spyder
_brotli             conda_build         more_itertools      spyder_kernels
_bz2                conda_content_trust mpmath              sqlalchemy
_cffi_backend       conda_env           msgpack             sqlite3
_codecs             conda_index         msvcrt              sre_compile
_codecs_cn          conda_libmamba_solver multidict           sre_constants
_codecs_hk          conda_pack          multipledispatch    sre_parse
_codecs_iso2022     conda_package_handling multiprocessing     ssl
_codecs_jp          conda_package_streaming mypy                sspi
_codecs_kr          conda_token         mypy_extensions     sspicon
_codecs_tw          configparser        mypyc               stack_data
_collections        constantly          nacl                start_pythonwin
_collections_abc    contextlib          narwhals            stat
_colorize           contextvars         navigator_updater   statistics
_compat_pickle      contourpy           nbclient            statsmodels
_compression        cookiecutter        nbconvert           streamlit
_contextvars        copy                nbformat            string
_csv                copyreg             nest_asyncio        stringprep
_ctypes             cpuinfo             netbios             struct
_ctypes_test        cryptography        netrc               subprocess
_datetime           cssselect           networkx            superqt
_decimal            csv                 nltk                sympy
_distutils_hack     ctypes              notebook            symtable
_elementtree        curl                notebook_shim       sys
_functools          curses              nt                  sysconfig
_hashlib            cwp                 ntpath              tables
_heapq              cycler              ntsecuritycon       tabnanny
_imp                cytoolz             nturl2path          tabulate
_interpchannels     dask                numba               tarfile
_interpqueues       dask_expr           numbergen           tblib
_interpreters       dataclasses         numbers             tempfile
_io                 datashader          numexpr             tenacity
_ios_support        datetime            numpy               terminado
_json               dateutil            numpydoc            test
_locale             dbm                 odbc                test_pycosat
_lsprof             dde                 opcode              text_unidecode
_lzma               debugpy             openpyxl            textdistance
_markupbase         decimal             operator            textwrap
_md5                decorator           optparse            this
_multibytecodec     defusedxml          ordered_set         threading
_multiprocessing    deprecated          os                  threadpoolctl
_nsis               diff_match_patch    overrides           three_merge
_opcode             difflib             packaging           tifffile
```

```
_opcode_metadata    dill                pandas              time
_operator           dis                 pandocfilters       timeit
_osx_support        distributed         panel               timer
_overlapped         distro              param               tinycss2
_pickle             docstring_to_markdown parsel              tkinter
_plotly_future_     doctest             parso               tldextract
_plotly_utils       docutils            partd               tlz
_py_abc             dotenv              pathlib             token
_pydatetime         email               pathspec            tokenize
_pydecimal          encodings           patsy               toml
_pyio               ensurepip           pdb                 tomli
_pylong             enum                perfmon             tomlkit
_pyrepl             erfa                pexpect             tomllib
_pytest             errno               pickle              toolz
_queue              et_xmlfile          pickleshare         tornado
_random             evalidate           pickletools         tqdm
_ruamel_yaml        executing           pip                 trace
_sha1               fastjsonschema      pkce                traceback
_sha2               faulthandler        pkg_resources       tracemalloc
_sha3               filecmp             pkginfo             traitlets
_signal             fileinput           pkgutil             truststore
_sitebuiltins       filelock            platform            tty
_socket             flake8              platformdirs        turtle
_sqlite3            flask               plistlib            turtledemo
_sre                fnmatch             plotly              twisted
_ssl                fontTools           pluggy              typeguard
_stat               fractions           ply                 typer
_statistics         frozendict          poplib              types
_string             frozenlist          posixpath           typing
_strptime           fsspec              poyo                typing_extensions
_struct             ftplib              pprint              tzdata
_suggestions        functools           profile             uc_micro
_symtable           gc                  prometheus_client   ujson
_sysconfig          genericpath         prompt_toolkit      unicodedata
_system_path        getopt              propcache           unidecode
_testbuffer         getpass             protego             unittest
_testcapi           gettext             pstats              urllib
_testclinic         git                 psutil              urllib3
_testclinic_limited gitdb               pty                 uuid
_testconsole        github              ptyprocess          venv
_testimportmultiple glob                pure_eval           w3lib
_testinternalcapi   gmpy2               py                  warnings
_testlimitedcapi    graphlib            py_compile          watchdog
_testmultiphase     greenlet            pyarrow             wave
_testsinglephase    gzip                pyasn1              wcwidth
_thread             h11                 pyasn1_modules      weakref
_threading_local    h5py                pyclbr              webbrowser
_tkinter            hashlib             pycodestyle         webencodings
_tokenize           heapdict            pycosat             websocket
_tracemalloc        heapq               pycparser           werkzeug
_typing             hmac                pyct                whatthepatch
_uuid               holoviews           pycurl              wheel
_warnings           html                pydantic            widgetsnbextension
_weakref            http                pydantic_core       win2kras
_weakrefset         httpcore            pydantic_settings   win32api
_win32sysloader     httpx               pydispatch          win32clipboard
_win32verstamp_pywin32ctypes hvplot             pydoc               win32com
_winapi             hyperlink           pydoc_data          win32con
_winxptheme         idlelib             pydocstyle          win32console
_wmi                idna                pyexpat             win32cred
```

```
_yaml               imageio             pyflakes            win32crypt
_zoneinfo           imagesize           pygments            win32cryptcon
abc                 imaplib             pylab               win32ctypes
add                 imblearn            pylint              win32event
adodbapi            importlib           pylint_venv         win32evtlog
afxres              importlib_metadata  pyls_spyder         win32evtlogutil
aiobotocore         importlib_resources pylsp               win32file
aiohappyeyeballs    incremental         pylsp_black         win32gui
aiohttp             inflect             pylsp_jsonrpc       win32gui_struct
aioitertools        inflection          pyodbc              win32help
aiosignal           iniconfig           pyparsing           win32inet
alabaster           inspect             pytest              win32inetcon
altair              intake              pythoncom           win32job
anaconda_anon_usage intervaltree        pythonjsonlogger    win32lz
anaconda_auth       io                  pytoolconfig        win32net
anaconda_catalogs   ipaddress           pytz                win32netcon
anaconda_cli_base   ipykernel           pyuca               win32pdh
anaconda_cloud_auth ipykernel_launcher  pyviz_comms         win32pdhquery
anaconda_navigator  ipywidgets          pywin               win32pdhutil
anaconda_project    isapi               pywin32_bootstrap   win32pipe
annotated_types     isort               pywin32_testutil    win32print
antigravity         isympy              pywintypes          win32process
anyio               itemadapter         pywt                win32profile
appdirs             itemloaders         qdarkstyle          win32ras
archspec            itertools           qstylizer           win32rcparser
argon2              itsdangerous        qtawesome           win32security
argparse            jedi                qtconsole           win32service
array               jellyfish           qtpy                win32serviceutil
arrow               jinja2              queue               win32timezone
ast                 jinja2_time         queuelib            win32trace
astroid             jmespath            quopri              win32traceutil
astropy             joblib              random              win32transaction
astropy_iers_data   json                rasutil             win32ts
asttokens           json5               re                  win32ui
async_lru           jsonpatch           readchar            win32uiole
asyncio             jsonpointer         referencing         win32verstamp
asyncssh            jsonschema          regcheck            win32wnet
atexit              jsonschema_specifications regex               win_inet_pton
atomicwrites        jupyter             regutil             winerror
attr                jupyter_client      repo_cli            winioctlcon
attrs               jupyter_console     reprlib             winnt
autocommand         jupyter_core        requests            winperf
automat             jupyter_events      requests_file       winpty
autopep8            jupyter_lsp         requests_toolbelt   winreg
babel               jupyter_server      rfc3339_validator   winsound
backports           jupyter_server_terminals rfc3986_validator   winxpgui
base64              jupyterlab          rich                winxptheme
bcrypt              jupyterlab_plotly   rlcompleter         wrapt
bdb                 jupyterlab_pygments roman_numerals      wsgiref
binaryornot         jupyterlab_server   rope                xarray
binascii            jupyterlab_widgets  rpds                xlwings
binstar_client      jwt                 rtree               xlwingsjs
bisect              keyring             ruamel_yaml         xml
black               keyword             runpy               xmlrpc
blackd              kiwisolver          s3fs                xxlimited
bleach              lazy_loader         sched               xxlimited_35
blib2to3            lckr_jupyterlab_variableinspector scipy              xxsubty
pe
blinker             libarchive          scrapy              xyzservices
bokeh               libmambapy          seaborn             yaml
```

```
boltons             lief                secrets             yapf
botocore            linecache           select              yapf_third_party
bottleneck          linkify_it          selectors           yapftests
brotli              llvmlite            semver              yarl
bs4                 lmdb                send2trash          zict
builtins            locale              service_identity    zipapp
bz2                 locket              servicemanager      zipfile
cProfile            logging             setuptools          zipimport
cachetools          lxml                shellingham         zipp
calendar            lz4                 shelve              zlib
certifi             lzma                shlex               zmq
cffi                mailbox             shutil              zoneinfo
chardet             markdown            signal              zope
charset_normalizer  markdown_it         sipbuild            zstandard

Enter any module name to get more help.  Or, type "modules spam" to search
for modules whose name or summary contain the string "spam".

You are now leaving help and returning to the Python interpreter.
If you want to ask for help on a particular object directly from the
interpreter, you can type "help(object)".  Executing "help('string')"
has the same effect as typing a particular string at the help> prompt.
```

Swapping variable in python

In [7]:
```
a=3
b=4
temp=a
a=b
b=temp
print("a:",a)
print("b:",b)
```

```
a: 4
b: 3
```

In [8]:
```
a=3
b=4
print(a)
print(b)
```

```
3
4
```

In [9]:
```
a2=6
b2=8
a2=a2+b2
b2=a2-b2
a2=a2-b2
print(a2)
print(b2)
```

```
8
6
```

In [10]:
```
a3=9
b3=5
a3,b3=b3,a3
print(a3,b3)
```

```
5 9
```

Math Function

```
In [11]: import math
```

```
In [16]: x= math.sqrt(36)
         x

Out[16]: 6.0
```

```
In [15]: x1= math.sqrt(20)
         x1

Out[15]: 4.47213595499958
```

```
In [14]: print(math.floor(4.9))
         print(math.ceil(5.1))

4
6
```

```
In [17]: print(math.pow(3,2))

9.0
```

```
In [18]: print(math.pow(2,5))

32.0
```

```
In [19]: print(math.pi)

3.141592653589793
```

```
In [20]: print(math.e)

2.718281828459045
```

```
In [21]: import math as m
         m.sqrt(10)

Out[21]: 3.1622776601683795
```

```
In [22]: from math import sqrt,pow
         pow(35,3)

Out[22]: 42875.0
```

```
In [ ]:
```