day-3

October 4, 2024

```
[95]: #print
       print("Hello python")
      Hello python
 [96]: a=input("enter the name")
       print(a)
      enter the nameDr. Safdar sardar khan
      Dr. Safdar sardar khan
 [98]: a=False
       type(a)
 [98]: bool
 [99]: int("10")
 [99]: 10
[100]: int(5.4)
[100]: 5
[102]: abs(-4)
[102]: 4
[103]: pow(2,4)
[103]: 16
[104]: pow(2,-3)
[104]: 0.125
[105]: min([2,3,7,11,10])
```

```
[105]: 2
[106]: \max([2,3,7,1,10])
[106]: 10
[25]: \min((2,3,7,1,10))
[25]: 1
[108]: \max((2,3,7,1,10))
[108]: 10
[109]: max("kolkata")
[109]: 't'
[110]: min("kolkata")
[110]: 'a'
[111]: c=22/7
[111]: 3.142857142857143
[112]: round(22/7)
[112]: 3
[113]: round(c,5)
[113]: 3.14286
[114]: divmod(5,2)
[114]: (2, 1)
[115]: bin(4)
[115]: '0b100'
[116]: oct(4)
[116]: '004'
```

```
[117]: hex(12)
[117]: '0xc'
[118]: a=3
       id(a)
[118]: 2668875114864
[120]: ord('a')
[120]: 97
[121]: ord('$')
[121]: 36
[122]: len("kolkata")
[122]: 7
[123]: len([2,5,6,700,4.5,True])
[123]: 6
[127]: sum([1,2,3,4,5.5,True,False])
[127]: 16.5
[128]: help("print")
      Help on built-in function print in module builtins:
      print(...)
          print(value, ..., sep=' ', end='\n', file=sys.stdout, flush=False)
          Prints the values to a stream, or to sys.stdout by default.
          Optional keyword arguments:
          file: a file-like object (stream); defaults to the current sys.stdout.
                 string inserted between values, default a space.
          sep:
          end:
                 string appended after the last value, default a newline.
          flush: whether to forcibly flush the stream.
[129]: help("sum")
```

Help on built-in function sum in module builtins:

sum(iterable, /, start=0)

Return the sum of a 'start' value (default: 0) plus an iterable of numbers

When the iterable is empty, return the start value.

This function is intended specifically for use with numeric values and may reject non-numeric types.

[35]: help('modules')

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

C:\Users\new\anaconda3\lib\site-packages\IPython\kernel__init__.py:12: ShimWarning: The `IPython.kernel` package has been deprecated since IPython 4.0.You should import from ipykernel or jupyter_client instead.

warn("The `IPython.kernel` package has been deprecated since IPython 4.0." WARNING: AstropyDeprecationWarning: The private astropy._erfa module has been made into its own package, pyerfa, which is a dependency of astropy and can be imported directly using "import erfa" [astropy._erfa]

C:\Users\new\anaconda3\lib\pkgutil.py:93: MatplotlibDeprecationWarning: The matplotlib.compat module was deprecated in Matplotlib 3.3 and will be removed two minor releases later.

__import__(info.name)

 ${\tt C:\Users \new\anaconda3\lib\site-packages\nltk\twitter_init__.py:20:}$

UserWarning: The twython library has not been installed. Some functionality from the twitter package will not be available.

warnings.warn(

QSS file sucessfuly loaded.

Found application patches to be applied.

No QCoreApplication instance found. Application patches not applied. You have to call load_stylesheet function after instantiation of QApplication to take effect.

C:\Users\new\anaconda3\lib\pkgutil.py:108: VisibleDeprecationWarning:
zmq.eventloop.minitornado is deprecated in pyzmq 14.0 and will be removed.
 Install tornado itself to use zmq with the tornado IOLoop.

yield from walk_packages(path, info.name+'.', onerror)

Cython collections sphinx msgpack **IPython** colorama msilib sphinxcontrib OpenSSL colorsys msvcrt spyder PIL multipledispatch spyder_kernels commctrl PyQt5 compileall multiprocessing sqlalchemy comtypes munkres sqlite3 concurrent mypy_extensions sre_compile __future__ conda mysql sre_constants abc conda_build mysqlx _aix_support sre_parse

| _ast | conda_content_trust | nacl | ssl |
|--------------------|---------------------|-------------------|----------------------|
| _asyncio | conda_env | navigator_updater | sspi |
| _bisect | conda_pack | nbclassic | sspicon |
| _black_version | conda_package_handl | ing nbclient | stat |
| _blake2 | conda_token | nbconvert | statistics |
| _bootlocale | conda_verify | nbformat | statsmodels |
| _bootsubprocess | configparser | nest_asyncio | storemagic |
| _bz2 | contextlib | netbios | string |
| _cffi_backend | contextlib2 | netrc | stringprep |
| _codecs | contextvars | networkx | struct |
| _codecs_cn | cookiecutter | nltk | subprocess |
| _codecs_hk | copy | nntplib | sunau |
| _codecs_iso2022 | copyreg | nose | symbol |
| _codecs_jp | crypt | notebook | sympy |
| _codecs_kr | ${	t cryptography}$ | nt | sympyprinting |
| _codecs_tw | CSV | ntpath | symtable |
| _collections | ctypes | ntsecuritycon | sys |
| _collections_abc | curl | nturl2path | sysconfig |
| _compat_pickle | curses | numba | tables |
| _compression | сwр | numbers | tabnanny |
| _contextvars | cycler | numexpr | tarfile |
| _csv | cython | numpy | tbb |
| _ctypes | cythonmagic | numpydoc | tblib |
| _ctypes_test | cytoolz | oauthlib | telnetlib |
| _daal4py | daal4py | odbc | tempfile |
| _datetime | dask | olefile | tensorboard |
| _decimal | dataclasses | onedal | |
| tensorboard_data_s | erver | | |
| _distutils_hack | datetime | opcode | |
| tensorboard_plugin | _wit | - | |
| _elementtree | dateutil | openpyxl | tensorflow |
| _functools | dbi | operator | tensorflow_estimator |
| _hashlib | dbm | opt_einsum | |
| tensorflow_io_gcs_ | filesystem | - | |
| _heapq | dde | optparse | termcolor |
| _imp | debugpy | os | terminado |
| _io | decimal | packaging | test |
| _ _json | decorator | pandas | test_data |
| _locale | defusedxml | pandocfilters | test_pycosat |
| _lsprof | diff_match_patch | paramiko | testpath |
| _lzma | difflib | parser | tests |
| _ _markupbase | dis | parso | text_unidecode |
| _ nd5 | distributed | partd | textdistance |
| _ _msi | distutils | past | textwrap |
| _multibytecodec | doctest | pasta | this |
| _multiprocessing | docutils | path | threading |
| _mysql_connector | email | pathlib | threadpoolctl |
| _mysqlxpb | encodings | pathlib2 | three_merge |
| - J · I I · | 0- | 1 | |

| _nsis | ensurepip | pathspec | tifffile |
|--|---------------------|-------------------|----------------------|
| _onedal4py_host | entrypoints | patsy | time |
| _opcode | enum | pdb | timeit |
| _operator | erfa | pep8 | timer |
| _osx_support | errno | perfmon | tinycss |
| _overlapped | et_xmlfile | pexpect | tkinter |
| _peg_parser | fastcache | pickle | tlz |
| _pickle | faulthandler | pickleshare | token |
| _py_abc | filecmp | pickletools | tokenize |
| _pydecimal | fileinput | pip | toml |
| _pyio | filelock | pipes | toolz |
| _pyrsistent_version | flake8 | pkg_resources | tornado |
| _pytest | flask | pkginfo | tqdm |
| _queue | flatbuffers | pkgutil | trace |
| _random | fnmatch | platform | traceback |
| _sha1 | fontTools | plistlib | tracemalloc |
| - _sha256 | formatter | pluggy | traitlets |
| - _sha3 | fractions | ply | tty |
| - _sha512 | fsspec | poplib | turtle |
| - _signal | ftplib | posixpath | turtledemo |
| _sitebuiltins | functools | роуо | typed_ast |
| socket | future | pprint | types |
| _sqlite3 | gast | profile | typing |
| _sre | gc | prometheus_client | typing_extensions |
| _ssl | genericpath | prompt_toolkit | ujson |
| _stat | getopt | pstats | unicodecsv |
| _statistics | getpass | psutil | unicodedata |
| _string | gettext | pty | unidecode |
| _strptime | gevent | ptyprocess | unittest |
| _struct | glob | pvectorc | urllib |
| _symtable | glob2 | ру | urllib3 |
| _system_path | google_auth_oauthli | | uu |
| _system_path _testbuffer | graphlib | pyasn1 | uuid |
| _testcapi | greenlet | pyasn1_modules | venv |
| _testcapi _testconsole | _ | pyclbr | |
| _testimportmultiple | grpc | pycodestyle | warnings watchdog |
| _testimportmurtiple _testinternalcapi | | pycosat | · · |
| _testmultiphase | h5py hashlib | | wave wcwidth |
| _thread | | pycparser | weakref |
| _ | heapdict | pycurl | |
| _threading_local | heapq | pydoc | webbrowser |
| _tkinter | hmac | pydoc_data | webencodings |
| _tracemalloc | html | pydocstyle | werkzeug |
| _uuid | html5lib | pyexpat | wheel |
| _warnings | http | pyflakes | whichcraft |
| _weakref | idlelib | pygments | widgetsnbextension |
| _weakrefset | idna | pylab | win2kras |
| _win32sysloader | imagecodecs | pylint | win32api |
| _winapi | imageio | pyls_spyder | win32clipboard |
| | | | |

| _winxptheme | imagesize | pylsp | win32com |
|--------------------|--------------------------------|-------------------|---------------------|
| _xxsubinterpreters | imaplib | pylsp_black | win32con |
| _yaml | imghdr | pylsp_jsonrpc | win32console |
| _zoneinfo | imp | pyodbc | win32cred |
| abc | importlib | pyparsing | win32crypt |
| absl | importlib_metadata | pyreadline | win32cryptcon |
| adodbapi | inflection | pyrsistent | win32ctypes |
| afxres | iniconfig | pytest | win32event |
| aifc | inspect | pythoncom | win32evtlog |
| alabaster | intervaltree | pytz | win32evtlogutil |
| anaconda_navigator | io | pywin | win32file |
| anaconda_project | ipaddress | pywin32_bootstrap | win32gui |
| antigravity | ipykernel | pywin32_testutil | win32gui_struct |
| anyio | ipykernel_launcher | pywintypes | win32help |
| appdirs | ipython_genutils | pywt | win32inet |
| argh | ipywidgets | pyximport | win32inetcon |
| argon2 | isapi | qdarkstyle | win32job |
| argparse | isort | qstylizer | win32lz |
| array | isympy | qtawesome | win32net |
| arrow | itertools | qtconsole | win32netcon |
| asn1crypto | itsdangerous | qtpy | win32pdh |
| ast | jdcal | queue | win32pdhquery |
| astroid | jedi | quopri | win32pdhutil |
| astropy | jinja2 | random | win32pipe |
| astunparse | jinja2_time | rasutil | win32print |
| async_generator | joblib | re | win32process |
| asynchat | json | readline | win32profile |
| asyncio | json5 | regcheck | win32ras |
| asyncore | jsonschema | regex | win32rcparser |
| atexit | jupyter | regutil | win32security |
| atomicwrites | <pre>jupyter_client</pre> | repo_cli | win32service |
| attr | <pre>jupyter_console</pre> | reprlib | win32serviceutil |
| audioop | jupyter_core | requests | win32timezone |
| autopep8 | jupyter_server | requests_oauthlib | win32trace |
| autoreload | jupyterlab | rlcompleter | win32traceutil |
| babel | <pre>jupyterlab_pygments</pre> | rmagic | win32transaction |
| backcall | jupyterlab_server | rope | win32ts |
| backports | jupyterlab_widgets | rsa | win32ui |
| base64 | jwt | rtree | win32uiole |
| bcrypt | keras | ruamel_yaml | win32verstamp |
| bdb | keras_preprocessing | run | win32wnet |
| binaryornot | keyring | runpy | win_inet_pton |
| binascii | keyword | sched | win_unicode_console |
| binhex | kiwisolver | scipy | wincertstore |
| binstar_client | <pre>lazy_object_proxy</pre> | scripts | winerror |
| bisect | lib2to3 | seaborn | winioctlcon |
| bitarray | libarchive | secrets | winnt |
| bkcharts | libfuturize | select | winperf |
| | | | |

black libpasteurize selectors winpty blackd lief send2trash winreg linecache bleach servicemanager winsound blib2to3 llvmlite setuptools winxpgui locale winxptheme bokeh shelve boto locket shlex wrapt bottleneck logging shutil wsgiref brotli lxml signal xdrlib bs4 lzma simplegeneric xlrd builtins mailbox singledispatch xlsxwriter bz2 mailcap sip xlwings cProfile markdown xlwt sipconfig markupsafe sipdistutils cached_property xmlmarshal cachetools site xmlrpc calendar math six xmltodict certifi matplotlib skimage xxsubtype cffi matplotlib_inline sklearn yaml mccabe sklearnex cgi yapf menuinst yapftests cgitb slugify chardet mimetypes smtpd zict mistune charset_normalizer smtplib zipapp chunk mkl sndhdr zipfile clang mkl fft sniffio zipimport click mkl_random snowballstemmer zipp cloudpickle mmapsocket zlib socketserver clyent mmapfile zmq cmathsocks zoneinfo mmsystem cmdmock sockshandler zope modulefinder sortedcollections code codecs more_itertools sortedcontainers codeop mpmath soupsieve

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

| [52]: | import math |
|--------|-------------------|
| [130]: | math.pi |
| [130]: | 3.141592653589793 |
| [131]: | math.e |
| [131]: | 2.718281828459045 |
| [132]: | math.factorial(5) |

```
[132]: 120
[133]: math.ceil(6.3)
[133]: 7
[134]: math.floor(6.9)
[134]: 6
[135]: math.sqrt(100)
[135]: 10.0
[136]: import random
[137]: random.randint(1,100)
[137]: 86
[140]: a=[2,4,7,1,3,10]
       random.shuffle(a)
[140]: [3, 1, 7, 10, 2, 4]
[39]: import time
 [40]: time.time()
 [40]: 1725938532.0330508
 [41]: time.ctime()
 [41]: 'Tue Sep 10 08:52:21 2024'
[144]: time.sleep(1)
[146]: print('Hello')
       time.sleep(3)
       print("python")
      Hello
      python
[147]: import os
```

```
[148]: os.getcwd()
[148]: 'C:\\Users\\new'
[64]: os.listdir()
[64]: ['.anaconda',
        '.astropy',
        '.cache',
        '.conda',
        '.condarc',
        '.continuum',
        '.eclipse',
        '.gitconfig',
        '.ipynb_checkpoints',
        '.ipython',
        '.jupyter',
        '.keras',
        '.matplotlib',
        '.p2',
        '.spyder-py3',
        '01-11-2021 930AM.ipynb',
        '02-11-2021 930AM.ipynb',
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        '23-11-2021 930AM.ipynb',
        '24-09-2021 930PM.ipynb',
```

```
'24-11-2021 930AM.ipynb',
'25-09-2021 930PM.ipynb',
'25-10-2021 930AM.ipynb',
'25-11-2021 930AM.ipynb',
'26-11-2021 930AM.ipynb',
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'27-11-2021 930PM.ipynb',
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'28-09-2021 930AM.ipynb',
'28-10-2021 930PM.ipynb',
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'3D Objects',
'abcd.txt',
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'AppData',
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'arpit.ipynb',
'Class.ipynb',
'Contacts',
'Cookies',
'Data types.ipynb',
'dataset',
'Day-2.ipynb',
'Day_1.ipynb',
'Day_3.ipynb',
'demofile.txt',
'demofile1.txt',
'demofile2.txt',
'Desktop',
'Documents',
'Downloads',
'eclipse',
'eclipse-workspace',
'Exam.ipynb',
'Exception.ipynb',
'Favorites',
'File.ipynb',
'File_operation.ipynb',
'Frozenset.ipynb',
'Functions.ipynb',
'IntelGraphicsProfiles',
'KNN.ipynb',
'Links',
'Local Settings',
'Main_Code_Alzhimer.ipynb',
```

```
'Music',
      'My Documents',
      'NetHood',
      'NTUSER.DAT',
      'ntuser.dat.LOG1',
      'ntuser.dat.LOG2',
      'NTUSER.DAT{8930bb1d-71db-11ec-85e9-c54d9abbc5bc}.TM.blf',
      01.regtrans-ms',
      02.regtrans-ms',
      'ntuser.ini',
      'OneDrive',
      'Operators and Control statements.ipynb',
      'Pictures',
      'PrintHood',
      'python_1.ipynb',
      'python_4.ipynb',
      'Recent',
      'Saved Games',
      'seaborn-data',
      'Searches',
      'SendTo',
      'Start Menu',
      'student.txt',
      'student1.txt',
      'student11.txt',
      'student2.txt',
      'student22.txt',
      'studentcse.txt',
      'student_writelines.txt',
      'Templates',
      'text1.txt',
      'Untitled.ipynb',
      'Untitled1.ipynb',
      'Untitled2.ipynb',
      'Untitled3.ipynb',
      'Untitled4.ipynb',
      'Videos',
      'xyz.txt']
    #sting #creating
[73]: c='Hello'
     print(c)
```

Hello

'MicrosoftEdgeBackups',

```
[74]: c="Hello"
      print(c)
     Hello
[13]: c='Hello'
      print(c)
     Hello
[75]: c="It's raning today"
      print(c)
     It's raning today
[76]: c='''Hello
      you
      are
      the
      yoy
      are
      the
      goo'''
      print(c)
     Hello
     you
     are
     the
     yoy
     are
     the
     goo
[77]: c=str(5)
      С
[77]: '5'
 [2]: c='hello'
      print(c)
      print(c[4])
     hello
 [7]: print(c[5])
```

```
Traceback (most recent call last)
       IndexError
       C:\PROGRA~1\KMSpico\temp/ipykernel_8972/129856708.py in <module>
       ----> 1 print(c[5])
       IndexError: string index out of range
[92]: c="Heuloworld"
      print(c)
     Heuloworld
[84]: print(c[0:8])
     Hello wo
[85]: print(c[2:])
     llo world
[86]: print(c[:4])
     Hell
[87]: print(c[:])
     Hello world
[93]: print(c[2:9:3])
     uwl
[94]: print(c[::-1])
     dlrowolueH
     editing & deleting mutable and immutable
 [8]: c="hello"
      print(c)
      c[2] = 'x'
     hello
       TypeError
                                                  Traceback (most recent call last)
       C:\PROGRA~1\KMSpico\temp/ipykernel_8972/2177209578.py in <module>
             1 c="hello"
```

```
2 print(c)
       ---> 3 c[2]='x'
       TypeError: 'str' object does not support item assignment
  [9]: print(c)
      del c[0]
      hello
                                                Traceback (most recent call last)
       TypeError
       C:\PROGRA~1\KMSpico\temp/ipykernel_8972/3943261516.py in <module>
             1 print(c)
       ----> 2 del c[0]
       TypeError: 'str' object doesn't support item deletion
[152]: print(c)
      del c
      hello
[154]: print(c)
       NameError
                                                Traceback (most recent call last)
       C:\PROGRA~1\KMSpico\temp/ipykernel_17240/2743823995.py in <module>
       ----> 1 print(c)
       NameError: name 'c' is not defined
      Operation of string
[102]: 'Hello' + 'World'
[102]: 'HelloWorld'
[157]: print("*" * 50)
      **************
[106]: print("Hello" * 10)
```

```
[158]: #Relation operation
       "Hello" == "world"
[158]: False
[159]: "Hello" != "world"
[159]: True
[162]: "Mumbai" > "Pune"
[162]: False
[10]: 'Kol' < 'kol'
[10]: True
[111]: #Logical operation
       'Hello' and 'world'
[111]: 'world'
[164]: '' and 'Hello'
[164]: ''
[113]: '' or 'world'
[113]: 'world'
[114]: 'Hello' or 'world'
[114]: 'Hello'
[11]: not 'hello'
[11]: False
[116]: not ''
[116]: True
 [13]: #loop in string
       c="hello world"
       for i in c:
```

```
print(i)
     h
     е
     1
     1
     0
     W
     0
     r
     1
     d
[14]: for i in c[2:7]:
          print(i)
     1
     1
     0
     W
[15]: for i in c[2:7:2]:
          print(i)
     1
     0
[19]: for i in c[::-1]:
          print(i)
     d
     1
     r
     0
     W
     0
     1
     1
     е
     h
[17]: #Member ship operator in or not in
      С
```

```
[17]: 'hello world'
[20]: 'h' in c
[20]: True
[21]: 'H' in c
[21]: False
[22]: 'world' not in c
[22]: False
[23]: # len , max, min, sorted
      a= 'kolkata'
      sorted(a)
[23]: ['a', 'a', 'k', 'k', 'l', 'o', 't']
[24]: sorted(a,reverse=True)
[24]: ['t', 'o', 'l', 'k', 'k', 'a', 'a']
[25]: sorted(a,reverse=False)
[25]: ['a', 'a', 'k', 'k', 'l', 'o', 't']
[26]: " ".join(['who', 'is', 'the', 'pm', 'of', 'india'])
[26]: 'who is the pm of india'
[29]: "/".join(['who', 'is', 'the', 'pm', 'of', 'india'])
[29]: 'who/is/the/pm/of/india'
[30]: "-".join(['who', 'is','the','pm','of','india'])
[30]: 'who-is-the-pm-of-india'
[31]: #replace
      "Hi my name is khan".replace("khan", "Dr.Safdar")
[31]: 'Hi my name is Dr.Safdar'
```

```
[34]: #strip
      name = 'Dr.Safdar'
      name
[34]: 'Dr.Safdar'
[35]: 'hi' +
                 name
[35]: 'hiDr.Safdar'
[36]: name.strip()
[36]: 'Dr.Safdar'
[37]: 'hello'
[37]: 'hello'
[42]: #List
      1=[]
[43]: L=[1,2,3,4,5,10,111,1222]
[43]: [1, 2, 3, 4, 5, 10, 111, 1222]
[44]: L2=[1, 'hello', 4.55, True, 5+4j]
      L2
[44]: [1, 'hello', 4.55, True, (5+4j)]
[45]: #2D
      L3=[1,2,3,[4,5]]
      L3
[45]: [1, 2, 3, [4, 5]]
[46]: #3D
      L4=[[[1,2],[3,4]],[[5,6],[7,8]]]
      L4
[46]: [[[1, 2], [3, 4]], [[5, 6], [7, 8]]]
[47]: L5=list['safdar']
      L5
```

```
[47]: list['safdar']
 [48]: L=[1,2,3,4,10]
       L
 [48]: [1, 2, 3, 4, 10]
 [49]: L[-1]
 [49]: 10
 [50]: L[::-1]
 [50]: [10, 4, 3, 2, 1]
 [51]: L3
 [51]: [1, 2, 3, [4, 5]]
 [52]: L3[-1]
[52]: [4, 5]
[213]: L3[-1][0]
[213]: 4
[214]: L3[-1][1]
[214]: 5
[53]: L3[-1][-1]
 [53]: 5
 [54]: L4
 [54]: [[[1, 2], [3, 4]], [[5, 6], [7, 8]]]
 [55]: L4[1][1][0]
 [55]: 7
 [56]: L4[1][1][-1]
 [56]: 8
```

| [57]: | L4[0][1][1] |
|-------|-------------|
| [57]: | 4 |
| [12]: | 2==2 |
| [12]: | True |
| []: | |