```
ramesh is a very good students

he developed a python code

addition of two numbers  ==== add.py

he feels app.py very === no one has created

anaconda ===== oraganization

MOU

who ever installed your software
automatically add.py=== laptop

ramesh sub.py  mul.py  div.py
```

```
**Package- Modules- Attributes**

- Package is a folder

    - That contains **multiple modules**

    - Each module one python file

        - Each python file has some functions

        - those functions are called as **atributes**
```

```python
# Case-1
from <package_name>.<module_name> import <attribute>

#Case-2
from <module_name>  import <attribute name>

# Case-3
# when i dont know the attributes
# I will directly import module name
import <modulename>
dir(modulename)
```

```python
# Module name is   : random

import random
```

```python
# Module name is: time
# Module name is: math
# Module name is : string
# Module name is : flask
# Module name is : streamlit
# Module name is : cv2
import time
```

```python
import math
```

```python
import string
```

```python
In [13]: import flask
```

```python
In [15]: import streamlit
```

```python
In [17]: import cv2
```

```python
In [19]: import omkar
```

```
---------------------------------------------------------------------------
ModuleNotFoundError                       Traceback (most recent call last)
Cell In[19], line 1
----> 1 import omkar

ModuleNotFoundError: No module named 'omkar'
```

```python
In [21]: import random
```

```python
In [23]: random
```

```
Out[23]: <module 'random' from 'E:\\Anaconda\\Lib\\random.py'>
```

```python
In [25]: dir(random)
```

```
Out[25]:  ['BPF',
           'LOG4',
           'NV_MAGICCONST',
           'RECIP_BPF',
           'Random',
           'SG_MAGICCONST',
           'SystemRandom',
           'TWOPI',
           '_ONE',
           '_Sequence',
           '__all__',
           '__builtins__',
           '__cached__',
           '__doc__',
           '__file__',
           '__loader__',
           '__name__',
           '__package__',
           '__spec__',
           '_accumulate',
           '_acos',
           '_bisect',
           '_ceil',
           '_cos',
           '_e',
           '_exp',
           '_fabs',
           '_floor',
           '_index',
           '_inst',
           '_isfinite',
           '_lgamma',
           '_log',
           '_log2',
           '_os',
           '_pi',
           '_random',
           '_repeat',
           '_sha512',
           '_sin',
           '_sqrt',
           '_test',
           '_test_generator',
           '_urandom',
           '_warn',
           'betavariate',
           'binomialvariate',
           'choice',
           'choices',
           'expovariate',
           'gammavariate',
           'gauss',
           'getrandbits',
           'getstate',
           'lognormvariate',
           'normalvariate',
           'paretovariate',
           'randbytes',
           'randint',
           'random',
```

```
        'randrange',
        'sample',
        'seed',
        'setstate',
        'shuffle',
        'triangular',
        'uniform',
        'vonmisesvariate',
        'weibullvariate']
```

- random is a module

- if i want to know how many attributes are there we need to use dir(random)

In [28]:
```python
# step-1:  import <module name>
# step-2:  dir(module name)  attributes


# module name: random
# attribute name : randint

# from <module name> import <attribute>
from random import randint
```

In [ ]:
```python
# step-1: import <module name>
# step-2: dir (module name)
# step-3: from <module name> import <randint>
```

In [32]:
```python
from random import randin
```

```
---------------------------------------------------------------------------
ImportError                               Traceback (most recent call last)
Cell In[32], line 1
----> 1 from random import randin

ImportError: cannot import name 'randin' from 'random' (E:\Anaconda\Lib\random.p
y)
```

In [34]:
```python
from random import randint
```

In [ ]:
```python
# step-1: import module
# step-2: dir(module)
# step-3: from module import attribute
```

In [36]:
```python
import random   # im exploring
dir(random)    # exploring

from random import randint
```

In [38]:
```python
randint
```

Out[38]: `<bound method Random.randint of <random.Random object at 0x00000182104136B0>>`

In [40]:
```python
help(randint)
```

```
Help on method randint in module random:

randint(a, b) method of random.Random instance
    Return random integer in range [a, b], including both end points.
```

In [50]: `randint(10,20)`

Out[50]: 15

In [62]: `randint(30,10)`

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
Cell In[62], line 1
----> 1 randint(30,10)

File E:\Anaconda\Lib\random.py:336, in Random.randint(self, a, b)
    332 def randint(self, a, b):
    333     """Return random integer in range [a, b], including both end points.
    334     """
--> 336     return self.randrange(a, b+1)

File E:\Anaconda\Lib\random.py:319, in Random.randrange(self, start, stop, step)
    317     if width > 0:
    318         return istart + self._randbelow(width)
--> 319     raise ValueError(f"empty range in randrange({start}, {stop})")
    321 # Non-unit step argument supplied.
    322 if istep > 0:

ValueError: empty range in randrange(30, 11)
```

In [ ]: `TypeError: Random.randint() missing 1 required positional arguments: 'b'`

In [ ]:
```
# step-1: import modulename
# step-2: dir(modulename)

# step-3: from modulename import attributename
# step-4: help(attributename)
# step-5: do the work
```

In [64]:
```
import random
random.randint(10,20)
```

Out[64]: 18

In [66]:
```
from random import randint
randint(10,30)
```

Out[66]: 30

In [ ]:
```
import random
help(random.randint)

from random import randint
help(randint)
#########################################
import random
random.randint(10,20)
```

```
from random import randint
randint(10,20)
```

In [ ]:
```
package name        method name
random               random
```

In [68]:
```
from random import random
help(random)
```

Help on built-in function random:

random() method of random.Random instance
    random() -> x in the interval [0, 1).

In [70]:
```
random()
```

Out[70]: 0.11157324264034296

In [72]:
```
help(randint)
```

Help on method randint in module random:

randint(a, b) method of random.Random instance
    Return random integer in range [a, b], including both end points.

In [74]:
```
help(random)
```

Help on built-in function random:

random() method of random.Random instance
    random() -> x in the interval [0, 1).

In [76]:
```
random(0,1)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[76], line 1
----> 1 random(0,1)

TypeError: Random.random() takes no arguments (2 given)
```

In [ ]:
```
module name         method name
========================================
random               random   =========== Completed
random               randint  =========== Completed
random               uniform  ========== Completed
random               choise   [1,2,3] ==== Complted
random               shuffle  [1,2,3,4,5,6]   === partial

math                 sqrt   ===== Completed
math                 pow    ===== Completed
math                 pi     ===== brackets are not required why help?
math                 e      ===== barckets are not rquired  why help?
math                 sin

time                 sleep
```

```
string                  dir and understand the attributes
                        ascii_numbers ascii_letter
```

In [86]:
```python
from random import choice
help(choice)
choice([1,2,3])
```

```
Help on method choice in module random:

choice(seq) method of random.Random instance
    Choose a random element from a non-empty sequence.
```

Out[86]: 1

In [80]:
```python
import random
dir(random)
```

```
Out[80]:  ['BPF',
          'LOG4',
          'NV_MAGICCONST',
          'RECIP_BPF',
          'Random',
          'SG_MAGICCONST',
          'SystemRandom',
          'TWOPI',
          '_ONE',
          '_Sequence',
          '__all__',
          '__builtins__',
          '__cached__',
          '__doc__',
          '__file__',
          '__loader__',
          '__name__',
          '__package__',
          '__spec__',
          '_accumulate',
          '_acos',
          '_bisect',
          '_ceil',
          '_cos',
          '_e',
          '_exp',
          '_fabs',
          '_floor',
          '_index',
          '_inst',
          '_isfinite',
          '_lgamma',
          '_log',
          '_log2',
          '_os',
          '_pi',
          '_random',
          '_repeat',
          '_sha512',
          '_sin',
          '_sqrt',
          '_test',
          '_test_generator',
          '_urandom',
          '_warn',
          'betavariate',
          'binomialvariate',
          'choice',
          'choices',
          'expovariate',
          'gammavariate',
          'gauss',
          'getrandbits',
          'getstate',
          'lognormvariate',
          'normalvariate',
          'paretovariate',
          'randbytes',
          'randint',
          'random',
```

```
        'randrange',
        'sample',
        'seed',
        'setstate',
        'shuffle',
        'triangular',
        'uniform',
        'vonmisesvariate',
        'weibullvariate']
```

In [88]:
```python
from math import pi
pi
```

Out[88]: 3.141592653589793

In [90]:
```python
from math import e
e
```

Out[90]: 2.718281828459045

In [92]:
```python
from math import sqrt
help(sqrt)
```

```
Help on built-in function sqrt in module math:

sqrt(x, /)
    Return the square root of x.
```

In [94]:
```python
sqrt(25)
```

Out[94]: 5.0

In [96]:
```python
from math import sin
sin()    # shift+tab cursor should be inside brackets
```

In [ ]:
```python
# what is package


# Math operations by vishal
#    add.py
#    sub.py
#    mul.py
#    div.py

from Math operations import add
```

In [ ]:
```python
# only module avaialble
# add.py
#    ADDD

import add
dir(add) ==== ADDD
```

In [ ]:
```python
package === folder
module === python file
attribute === functions inside python
```

```python
# step-1
import random
```

```python
dir(random)
```

```
Out[3]:  ['BPF',
          'LOG4',
          'NV_MAGICCONST',
          'RECIP_BPF',
          'Random',
          'SG_MAGICCONST',
          'SystemRandom',
          'TWOPI',
          '_ONE',
          '_Sequence',
          '__all__',
          '__builtins__',
          '__cached__',
          '__doc__',
          '__file__',
          '__loader__',
          '__name__',
          '__package__',
          '__spec__',
          '_accumulate',
          '_acos',
          '_bisect',
          '_ceil',
          '_cos',
          '_e',
          '_exp',
          '_fabs',
          '_floor',
          '_index',
          '_inst',
          '_isfinite',
          '_lgamma',
          '_log',
          '_log2',
          '_os',
          '_pi',
          '_random',
          '_repeat',
          '_sha512',
          '_sin',
          '_sqrt',
          '_test',
          '_test_generator',
          '_urandom',
          '_warn',
          'betavariate',
          'binomialvariate',
          'choice',
          'choices',
          'expovariate',
          'gammavariate',
          'gauss',
          'getrandbits',
          'getstate',
          'lognormvariate',
          'normalvariate',
          'paretovariate',
          'randbytes',
          'randint',
          'random',
```

```
 'randrange',
 'sample',
 'seed',
 'setstate',
 'shuffle',
 'triangular',
 'uniform',
 'vonmisesvariate',
 'weibullvariate']
```

In [5]:
```python
# i want to know about randint

from random import randint
help(randint)
```

```
Help on method randint in module random:

randint(a, b) method of random.Random instance
    Return random integer in range [a, b], including both end points.
```

In [7]:
```python
import random
help(random.randint)
```

```
Help on method randint in module random:

randint(a, b) method of random.Random instance
    Return random integer in range [a, b], including both end points.
```

In [9]:
```python
from random import randinT
```

```
---------------------------------------------------------------------------
ImportError                               Traceback (most recent call last)
Cell In[9], line 1
----> 1 from random import randinT

ImportError: cannot import name 'randinT' from 'random' (E:\Anaconda\Lib\random.p
y)
```

In [11]:
```python
import random
random.randinT
```

```
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
Cell In[11], line 2
      1 import random
----> 2 random.randinT

AttributeError: module 'random' has no attribute 'randinT'
```

In [13]:
```python
import random
help(random.random)
```

```
Help on built-in function random:

random() method of random.Random instance
    random() -> x in the interval [0, 1).
```

```python
In [15]:  from random import random
          help(random)
```

Help on built-in function random:

random() method of random.Random instance
    random() -> x in the interval [0, 1).

```python
In [19]:  import string
          dir(string)
```

Out[19]: ['Formatter',
           'Template',
           '_ChainMap',
           '__all__',
           '__builtins__',
           '__cached__',
           '__doc__',
           '__file__',
           '__loader__',
           '__name__',
           '__package__',
           '__spec__',
           '_re',
           '_sentinel_dict',
           '_string',
           'ascii_letters',
           'ascii_lowercase',
           'ascii_uppercase',
           'capwords',
           'digits',
           'hexdigits',
           'octdigits',
           'printable',
           'punctuation',
           'whitespace']

```python
In [27]:  from random import random
          random()
```

Out[27]: 0.10410104654808583

```python
In [31]:  from random import randint
          randint(10,20)
```

Out[31]: 18

```python
In [35]:  from random import uniform
          uniform(10,20)
```

Out[35]: 11.48630768260414

```python
In [47]:  from random import shuffle
          list1=[1,2,3,4]
          shuffle(list1)
          list1
```

Out[47]: [3, 1, 4, 2]

Note

- always understand the doc string

- **inplace** indicates the output is overwriting at same place

In [50]:
```python
from math import pi,e,sqrt,pow
```

In [52]:
```python
print(pi)
print(e)
```

```
3.141592653589793
2.718281828459045
```

In [58]:
```python
sqrt(9),pow(4,5)
```

Out[58]: (3.0, 1024.0)

In [64]:
```python
4**5,4*4*4*4*4,pow(4,5)
```

Out[64]: (1024, 1024, 1024.0)

In [68]:
```python
import time
print('hai')
time.sleep(5)
print('bye')
```

```
hai
bye
```

In [74]:
```python
import time
start=time.time()   # one  10
print('hai')
time.sleep(5)
print('bye')
time.sleep(2)
print('bye bye')
end=time.time()    #  one  10.20
print('the total time taken:',(end-start))
```

```
hai
bye
bye bye
the total time taken: 7.001380920410156
```

In [80]:
```python
# module name: keyword
# attribute name : kwlist

import keyword
len(keyword.kwlist)
```

Out[80]: 35

In [82]:
```python
from keyword import kwlist
kwlist
```

```
Out[82]: ['False',
          'None',
          'True',
          'and',
          'as',
          'assert',
          'async',
          'await',
          'break',
          'class',
          'continue',
          'def',
          'del',
          'elif',
          'else',
          'except',
          'finally',
          'for',
          'from',
          'global',
          'if',
          'import',
          'in',
          'is',
          'lambda',
          'nonlocal',
          'not',
          'or',
          'pass',
          'raise',
          'return',
          'try',
          'while',
          'with',
          'yield']
```

```
In [ ]: True
        False
        if
        elif
        else
        for
        while
        break
        continue
        pass
        def
```

how to install the package

- to install the packages first we need to identify the installation name

- 90% installation name and import name both are same

- we will use anaconda prompt to install the package

- we can use jupyter notebook also but prompt is recomended

```python
In [85]: import cv2
```

```python
In [89]: import wordcloud
```

```python
In [91]: pip install opencv-python
```

```
Requirement already satisfied: opencv-python in e:\anaconda\lib\site-packages (4.
11.0.86)
Requirement already satisfied: numpy>=1.21.2 in e:\anaconda\lib\site-packages (fr
om opencv-python) (1.26.4)
Note: you may need to restart the kernel to use updated packages.
```

```python
In [ ]:
```

```python
In [ ]: !pip install opencv-python
```

```python
In [93]: pip freeze
         # to see which are available which are not avalialble
```

```
aext-assistant @ file:///C:/b/abs_98xvdek9qa/croot/aext-assistant_1734644152369/w
ork
aext-assistant-server @ file:///C:/b/abs_93twy7n40b/croot/aext-assistant-server_1
734640405857/work
aext-core @ file:///C:/b/abs_73k82brgp5/croot/aext-core_1734637800697/work
aext-core-server @ file:///C:/b/abs_e3xgm257mx/croot/aext-core-server_17346350791
46/work
aext-panels @ file:///C:/b/abs_e40tdjfcpq/croot/aext-panels_1734643464834/work
aext-panels-server @ file:///C:/b/abs_546lo5c36i/croot/aext-panels-server_1734640
142498/work
aext-project-filebrowser-server @ file:///C:/b/abs_11ixe7hbzm/croot/aext-project-
filebrowser-server_1734687629540/work/backend_lib/project_filebrowser
aext-share-notebook @ file:///C:/b/abs_fewa44_d8o/croot/aext-share-notebook_17346
42886563/work
aext-share-notebook-server @ file:///C:/b/abs_3dkdp713ad/croot/aext-share-noteboo
k-server_1734639662890/work
aext-shared @ file:///C:/b/abs_6bq_wjfbhn/croot/aext-shared_1734628822229/work
aext-toolbox @ file:///C:/b/abs_8ehb5u9xv_/croot/anaconda-toolbox_1734694573015/w
ork
aiobotocore @ file:///C:/b/abs_a0zxrsvpwx/croot/aiobotocore_1714464454692/work
aiohappyeyeballs @ file:///C:/b/abs_b505trsapr/croot/aiohappyeyeballs_17254340360
96/work
aiohttp @ file:///C:/b/abs_13j6efxjb7/croot/aiohttp_1725529348885/work
aioitertools @ file:///tmp/build/80754af9/aioitertools_1607109665762/work
aiosignal @ file:///tmp/build/80754af9/aiosignal_1637843061372/work
alabaster @ file:///C:/b/abs_45ba4vacaj/croot/alabaster_1718201502252/work
alembic @ file:///C:/b/abs_9dfubpaeyo/croot/alembic_1729532445549/work
altair @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/altair_169
9497320503/work
anaconda-anon-usage @ file:///C:/b/abs_c3w_h1zzjg/croot/anaconda-anon-usage_17109
65204622/work
anaconda-catalogs @ file:///C:/Users/dev-admin/perseverance-python-buildout/croo
t/anaconda-catalogs_1701816586117/work
anaconda-cli-base @ file:///C:/b/abs_e4_l2p3q_7/croot/anaconda-cli-base_174136946
8349/work
anaconda-client @ file:///C:/b/abs_66jutvvngz/croot/anaconda-client_173144069360
1/work
anaconda-cloud-auth @ file:///C:/b/abs_30636r4zkk/croot/anaconda-cloud-auth_17314
40286098/work
anaconda-navigator @ file:///C:/b/abs_a5gzce6vy0/croot/anaconda-navigator_1727709
729163/work
anaconda-project @ file:///C:/b/abs_95s0l9dwvd/croot/anaconda-project_17060492576
87/work
annotated-types @ file:///C:/b/abs_0dmaoyhhj3/croot/annotated-types_170954296831
1/work
anyio @ file:///C:/b/abs_847uobe7ea/croot/anyio_1706220224037/work
appdirs==1.4.4
archspec @ file:///croot/archspec_1709217642129/work
argon2-cffi @ file:///opt/conda/conda-bld/argon2-cffi_1645000214183/work
argon2-cffi-bindings @ file:///C:/Users/dev-admin/perseverance-python-buildout/cr
oot/argon2-cffi-bindings_1699549801117/work
arrow @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/arrow_16995
49851004/work
astroid @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/astroid_1
699480418189/work
astropy @ file:///C:/b/abs_5egnt0gyqe/croot/astropy_1726174619184/work
astropy-iers-data @ file:///C:/b/abs_ecdfv0_ea2/croot/astropy-iers-data_172600055
0777/work
asttokens @ file:///opt/conda/conda-bld/asttokens_1646925590279/work
async-lru @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/async-l
```

```
ru_1701796859357/work
atomicwrites==1.4.0
attrs @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/attrs_16994
73735254/work
Automat @ file:///tmp/build/80754af9/automat_1600298431173/work
autopep8 @ file:///croot/autopep8_1708962882016/work
Babel @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/babel_16994
75785740/work
bcrypt @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/bcrypt_169
9483842258/work
beautifulsoup4 @ file:///C:/b/abs_d5wytg_p0w/croot/beautifulsoup4-split_171802983
3749/work
binaryornot @ file:///tmp/build/80754af9/binaryornot_1617751525010/work
black @ file:///C:/b/abs_3arhghl9_x/croot/black_1725573890945/work
bleach @ file:///opt/conda/conda-bld/bleach_1641577558959/work
blinker @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/blinker_1
699474692786/work
bokeh @ file:///C:/b/abs_b40zi4jp_s/croot/bokeh_1727914495891/work
boltons @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/boltons_1
699480450092/work
botocore @ file:///C:/b/abs_0dkeqep0ox/croot/botocore_1714460586193/work
Bottleneck @ file:///C:/b/abs_f7un855idq/croot/bottleneck_1709069969633/work
Brotli @ file:///C:/b/abs_3d36mno480/croot/brotli-split_1714483178642/work
cachetools @ file:///C:/b/abs_792zbtc0ua/croot/cachetools_1713977157919/work
certifi @ file:///C:/b/abs_8a944p1_gn/croot/certifi_1738623753421/work/certifi
cffi @ file:///C:/b/abs_90yq4lmu83/croot/cffi_1726856448345/work
chardet==3.0.4
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click @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/click_16994
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cloudpickle @ file:///C:/b/abs_8abv3sva4p/croot/cloudpickle_1721657372632/work
colorama @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/colorama
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83201909/work
conda-libmamba-solver @ file:///croot/conda-libmamba-solver_1727775630457/work/sr
c
conda-pack @ file:///C:/b/abs_0cu91sbau5/croot/conda-pack_1710258097566/work
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conda_package_streaming @ file:///C:/b/abs_fe6zb0_j8_/croot/conda-package-streami
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cytoolz @ file:///C:/b/abs_d43s8lnb60/croot/cytoolz_1701723636699/work
dask @ file:///C:/b/abs_12bk4i_z1j/croot/dask-core_1725464350376/work
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decorator @ file:///opt/conda/conda-bld/decorator_1643638310831/work
defusedxml @ file:///tmp/build/80754af9/defusedxml_1615228127516/work
diff-match-patch @ file:///Users/ktietz/demo/mc3/conda-bld/diff-match-patch_16305
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distributed @ file:///C:/b/abs_52ju83vjqr/croot/distributed_1725523030746/work
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google-api-python-client==2.165.0
google-auth==2.38.0
google-auth-httplib2==0.2.0
google-generativeai==0.8.4
googleapis-common-protos==1.69.2
googletrans==4.0.0rc1
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h11==0.9.0
h2==3.2.0
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httplib2==0.22.0
httpx==0.13.3
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```
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4/work
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2/work
jupyterlab-widgets @ file:///tmp/build/80754af9/jupyterlab_widgets_1609884341231/
work
jupyterlab_server @ file:///C:/b/abs_fdi5r_tpjc/croot/jupyterlab_server_172586537
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lazy-object-proxy @ file:///C:/b/abs_19td_nzb6n/croot/lazy-object-proxy_171290873
```

```
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n-buildout/croot/jupyterlab-variableinspector_1709167201477/work
libarchive-c @ file:///croot/python-libarchive-c_1726069797193/work
libmambapy @ file:///C:/b/abs_aam1usey89/croot/mamba-split_1725563515831/work/lib
mambapy
linkify-it-py @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/lin
kify-it-py_1699558957411/work
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lz4 @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/lz4_169955953
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mypy @ file:///C:/b/abs_b8k0j63oc7/croot/mypy-split_1725574346532/work
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nbformat @ file:///C:/b/abs_c2jkw46etm/croot/nbformat_1728050303821/work
nest-asyncio @ file:///C:/b/abs_65d6lblmoi/croot/nest-asyncio_1708532721305/work
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ebook-shim_1701806592322/work
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pickleshare @ file:///tmp/build/80754af9/pickleshare_1606932040724/work
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platformdirs @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/plat
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pluggy @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/pluggy_169
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protobuf==5.29.4
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pure-eval @ file:///opt/conda/conda-bld/pure_eval_1646925070566/work
py-cpuinfo @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/py-cpu
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pyarrow @ file:///C:/b/abs_cbc4sg_1e0/croot/pyarrow_1721664257308/work/python
pyasn1 @ file:///Users/ktietz/demo/mc3/conda-bld/pyasn1_1629708007385/work
```

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PyAudio==0.2.14
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pyct @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/pyct_1699542
988857/work
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pydantic @ file:///C:/b/abs_b7acb4hnl_/croot/pydantic_1725040540545/work
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PyQt5==5.15.10
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PyQtWebEngine==5.15.6
PySocks @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/pysocks_1
699473336188/work
pytest @ file:///C:/b/abs_een_3z747j/croot/pytest_1717793253670/work
python-dateutil @ file:///C:/b/abs_3au_koqnbs/croot/python-dateutil_171649577716
0/work
python-dotenv @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/pyt
hon-dotenv_1699475097728/work
python-json-logger @ file:///C:/Users/dev-admin/perseverance-python-buildout/croo
t/python-json-logger_1699543626759/work
python-lsp-black @ file:///C:/b/abs_5dhen_5vga/croot/python-lsp-black_17092329625
89/work
python-lsp-jsonrpc @ file:///croot/python-lsp-jsonrpc_1708962872556/work
python-lsp-server @ file:///C:/b/abs_2cdyzvcq4z/croot/python-lsp-server_170897179
6975/work
python-slugify @ file:///tmp/build/80754af9/python-slugify_1620405669636/work
pytoolconfig @ file:///C:/b/abs_f2j_xsvrpn/croot/pytoolconfig_1701728751207/work
pyttsx3==2.98
pytz @ file:///C:/b/abs_6ap4tsz1ox/croot/pytz_1713974360290/work
pyviz_comms @ file:///C:/b/abs_674gfmqoxa/croot/pyviz_comms_1711136872853/work
PyWavelets @ file:///C:/b/abs_95ujr8_xu1/croot/pywavelets_1725657962149/work
pywin32==305.1
pywin32-ctypes @ file:///C:/b/abs_2cfx5l4nvi/croot/pywin32-ctypes_1709340246092/w
ork
```

```
pywinpty @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/pywinpty
_1699496010557/work/target/wheels/pywinpty-2.0.10-cp312-none-win_amd64.whl#sha256
=227f3f94f568f63ab3418c02875c4b429a0a3638e1a2917a22bb8e4ba1762179
PyYAML @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/pyyaml_169
9479991712/work
pyzmq @ file:///C:/b/abs_89aq69t0up/croot/pyzmq_1705605705281/work
QDarkStyle @ file:///croot/qdarkstyle_1709231003551/work
qstylizer @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/qstyliz
er_1699565338341/work/dist/qstylizer-0.2.2-py2.py3-none-any.whl#sha256=be2f7d956d
89710f13dee80f2d594e794c2710f12576fe60ecee84dd1ad72180
QtAwesome @ file:///C:/b/abs_e1w2vmh9q7/croot/qtawesome_1726169367822/work
qtconsole @ file:///C:/b/abs_03f8rg9vl6/croot/qtconsole_1709231218069/work
QtPy @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/qtpy_1701807
198514/work
queuelib @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/queuelib
_1699543858829/work
readchar @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/readchar
_1699483104212/work
referencing @ file:///C:/Users/dev-admin/py312/referencing_1706802962559/work
regex @ file:///C:/b/abs_5cm86yjgo3/croot/regex_1726670543261/work
requests @ file:///C:/b/abs_9frifg92q2/croot/requests_1721410901096/work
requests-file @ file:///Users/ktietz/demo/mc3/conda-bld/requests-file_16294557819
86/work
requests-toolbelt @ file:///C:/Users/dev-admin/perseverance-python-buildout/croo
t/requests-toolbelt_1699475466775/work
rfc3339-validator @ file:///C:/Users/dev-admin/perseverance-python-buildout/croo
t/rfc3339-validator_1699543924991/work
rfc3986==1.5.0
rfc3986-validator @ file:///C:/Users/dev-admin/perseverance-python-buildout/croo
t/rfc3986-validator_1699543955651/work
rich @ file:///C:/b/abs_21nw9z7xby/croot/rich_1720637504376/work
rope @ file:///C:/b/abs_a4uy0nuc8z/croot/rope_1708963217026/work
rpds-py @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/rpds-py_1
699565648947/work
rsa==4.9
Rtree @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/rtree_16995
65751755/work
ruamel-yaml-conda @ file:///C:/Users/dev-admin/perseverance-python-buildout/croo
t/ruamel_yaml_1699543990032/work
ruamel.yaml @ file:///C:/b/abs_0cunwx_ww6/croot/ruamel.yaml_1727980181547/work
ruamel.yaml.clib @ file:///C:/b/abs_5fk8zi6n09/croot/ruamel.yaml.clib_17277698373
59/work
s3fs @ file:///C:/b/abs_ddtjx92ddb/croot/s3fs_1724924140381/work
scikit-image @ file:///C:/b/abs_85dh_ywewv/croot/scikit-image_1726762076100/work
scikit-learn @ file:///C:/b/abs_aajc9f7v6r/croot/scikit-learn_1722067652693/work/
dist/scikit_learn-1.5.1-cp312-cp312-win_amd64.whl#sha256=96ed6defb86c154d2ff360af
dbf0c37c33c4c729d4a15c9d8ada0b70fd817816
scipy @ file:///C:/b/abs_efv75hqhju/croot/scipy_1717521501389/work/dist/scipy-1.1
3.1-cp312-cp312-win_amd64.whl#sha256=b29dba691773ea983857b31cad894f31623348583937
b6f03783facfd7abc734
Scrapy @ file:///C:/b/abs_b407wrcuij/croot/scrapy_1708714755460/work
seaborn @ file:///C:/b/abs_ca2mi1rgmn/croot/seaborn_1718303534355/work
semver @ file:///C:/b/abs_4bkbn3v6jp/croot/semver_1709243682483/work
Send2Trash @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/send2t
rash_1701806400767/work
sentry-sdk @ file:///C:/b/abs_03mwb6wi8k/croot/sentry-sdk_1732198189303/work
service-identity @ file:///Users/ktietz/demo/mc3/conda-bld/service_identity_16294
60757137/work
setuptools==75.1.0
shellingham @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/shell
```

ingham_1699475566718/work
sip @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/sip_169947559
0677/work
six @ file:///tmp/build/80754af9/six_1644875935023/work
smart-open @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/smart_
open_1699483216058/work
smmap @ file:///tmp/build/80754af9/smmap_1611694433573/work
sniffio @ file:///C:/b/abs_3akdewudo_/croot/sniffio_1705431337396/work
snowballstemmer @ file:///tmp/build/80754af9/snowballstemmer_1637937080595/work
sortedcontainers @ file:///tmp/build/80754af9/sortedcontainers_1623949099177/work
soupsieve @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/soupsie
ve_1699496611169/work
SpeechRecognition==3.14.2
Sphinx @ file:///C:/b/abs_67j2y1kkd0/croot/sphinx_1718275396111/work
sphinxcontrib-applehelp @ file:///home/ktietz/src/ci/sphinxcontrib-applehelp_1611
920841464/work
sphinxcontrib-devhelp @ file:///home/ktietz/src/ci/sphinxcontrib-devhelp_16119209
23094/work
sphinxcontrib-htmlhelp @ file:///tmp/build/80754af9/sphinxcontrib-htmlhelp_162394
5626792/work
sphinxcontrib-jsmath @ file:///home/ktietz/src/ci/sphinxcontrib-jsmath_1611920942
228/work
sphinxcontrib-qthelp @ file:///home/ktietz/src/ci/sphinxcontrib-qthelp_1611921055
322/work
sphinxcontrib-serializinghtml @ file:///C:/b/abs_91266tdnkr/croot/sphinxcontrib-s
erializinghtml_1718201501959/work
spyder @ file:///C:/b/abs_2f04kjngiv/croot/spyder_1727197291220/work
spyder-kernels @ file:///C:/b/abs_e5u6y4ldr2/croot/spyder-kernels_1707937767956/w
ork
SQLAlchemy @ file:///C:/b/abs_7duxw5rxx8/croot/sqlalchemy_1725885067126/work
stack-data @ file:///opt/conda/conda-bld/stack_data_1646927590127/work
statsmodels @ file:///C:/b/abs_54b33xdukx/croot/statsmodels_1718381209933/work
streamlit @ file:///C:/b/abs_84p_54gim8/croot/streamlit_1724335176234/work
sympy==1.13.1
tables @ file:///C:/b/abs_92un5wtnqq/croot/pytables_1725380800658/work
tabulate @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/tabulate
_1701812852133/work
tblib @ file:///Users/ktietz/demo/mc3/conda-bld/tblib_1629402031467/work
tenacity @ file:///C:/b/abs_d2_havtscu/croot/tenacity_1721222514290/work
terminado @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/termina
do_1699545066607/work
text-unidecode @ file:///Users/ktietz/demo/mc3/conda-bld/text-unidecode_162940135
4553/work
textdistance @ file:///tmp/build/80754af9/textdistance_1612461398012/work
threadpoolctl @ file:///C:/b/abs_def0dwqlft/croot/threadpoolctl_1719407816649/wor
k
three-merge @ file:///tmp/build/80754af9/three-merge_1607553261110/work
tifffile @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/tifffile
_1699496794322/work
tinycss2 @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/tinycss2
_1699545185754/work
tldextract @ file:///C:/b/abs_34gknp7o18/croot/tldextract_1723064394448/work
toml @ file:///tmp/build/80754af9/toml_1616166611790/work
tomli @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/tomli_16994
72528897/work
tomlkit @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/tomlkit_1
699475633229/work
toolz @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/toolz_16994
74617784/work
torch==2.6.0

```
torchvision==0.21.0
tornado @ file:///C:/b/abs_7bua0304mj/croot/tornado_1718740122405/work
tqdm @ file:///C:/b/abs_77wju137gk/croot/tqdm_1724853945787/work
traitlets @ file:///C:/b/abs_bfsnoxl4pq/croot/traitlets_1718227069245/work
truststore @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/trusts
tore_1701881385424/work
Twisted @ file:///C:/b/abs_e7yqd811in/croot/twisted_1708702883769/work
twisted-iocpsupport @ file:///C:/Users/dev-admin/perseverance-python-buildout/cro
ot/twisted-iocpsupport_1699496891011/work
typer @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/typer_16994
83420852/work
typing_extensions @ file:///C:/b/abs_0as9mdbkfl/croot/typing_extensions_171526890
6610/work
tzdata @ file:///croot/python-tzdata_1690578112552/work
uc-micro-py @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/uc-mi
cro-py_1699545612984/workNote: you may need to restart the kernel to use updated
packages.

ujson @ file:///C:/b/abs_c93a278xy4/croot/ujson_1717598062082/work
ultralytics==8.3.96
ultralytics-thop==2.0.14
unicodedata2 @ file:///C:/b/abs_b6apldlg7y/croot/unicodedata2_1713212998255/work
Unidecode @ file:///C:/b/abs_4cczv71djp/croot/unidecode_1724790062151/work
uritemplate==4.1.1
urllib3 @ file:///C:/b/abs_9a_f8h_bn2/croot/urllib3_1727769836930/work
w3lib @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/w3lib_17091
62573908/work
watchdog @ file:///C:/b/abs_b3l_3s276z/croot/watchdog_1717166538403/work
wcwidth @ file:///Users/ktietz/demo/mc3/conda-bld/wcwidth_1629357192024/work
webencodings @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/webe
ncodings_1699497069416/work
websocket-client @ file:///C:/b/abs_5dmnxxoci9/croot/websocket-client_17158783513
19/work
Werkzeug @ file:///C:/b/abs_8bittcw9jr/croot/werkzeug_1716533366070/work
whatthepatch @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/what
thepatch_1699497134590/work
wheel==0.44.0
widgetsnbextension @ file:///C:/b/abs_538o2crz7f/croot/widgetsnbextension_1710960
099872/work
win-inet-pton @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/win
_inet_pton_1699472992992/work
wordcloud==1.9.4
wrapt @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/wrapt_16994
80231633/work
xarray @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/xarray_169
9480274069/work
xlwings @ file:///C:/b/abs_bc7ro1xk70/croot/xlwings_1725400109105/work
xyzservices @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/xyzse
rvices_1699548906163/work
yapf @ file:///C:/b/abs_8aidayep18/croot/yapf_1708964372649/work
yarl @ file:///C:/b/abs_00rcuicx5k/croot/yarl_1726015884215/work
zict @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/zict_1699548
979005/work
zipp @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/zipp_1707493
775475/work
zope.interface @ file:///C:/Users/dev-admin/perseverance-python-buildout/croot/zo
pe.interface_1699497164709/work
zstandard @ file:///C:/b/abs_82dff2ths3/croot/zstandard_1728569207191/work
```

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In [ ]:
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