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Python 3.11.4 (tags/v3.11.4:d2340ef, Jun 7 2023, 05:45:37) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
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```
>>> #integer
>>> v = 5
>>> print(v)
5
>>> #string
>>> name = likith
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'likith' is not defined
>>> name = "likith"
>>> print(name)
likith
>>> #list
>>> fruits = ["apples", "milk", "bread"]
>>> print(fruits)
['apples', 'milk', 'bread']
>>> #dictionary
>>> data = {"name": "Bob", "age": 30}
>>> print(data)
{'name': 'Bob', 'age': 30}
>>> #float
>>> x = 0.5
>>> print(x)
0.5
>>> print(type(x))
<class 'float'>
>>> print(type(v))
<class 'int'>
>>> print(type(name))
<class 'str'>
>>> print(type(fruits))
<class 'list'>
>>> print(type(data))
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>>> # Reverse a String using slicing
>>> word = "Hello, world!"
>>> reversed_string = word[::-1]
>>> print(word)
Hello, world!
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>>> # Explore dir() & help()
>>> j = [1, 2, 3]
>>> print(dir(j))
['__add__', '__class__', '__class_getitem__', '__contains__', '__delattr__', '__delitem__', '__dir__', '__doc__', '__eq__', '__format__', '__ge__',
 '__getattr__', '__getitem__', '__getstate__', '__gt__', '__hash__', '__iadd__', '__imul__', '__init__', '__init_subclass__', '__iter__', '__le_
__', '__len__', '__lt__', '__mul__', '__ne__', '__new__', '__reduce__', '__reduce_ex__', '__repr__', '__reversed__', '__rmul__', '__setattr__', '__se
titem__', '__sizeof__', '__str__', '__subclasshook__', 'append', 'clear', 'copy', 'count', 'extend', 'index', 'insert', 'pop', 'remove', 'reverse',
'sort']
>>> print(j.__len__)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name '__len__' is not defined. Did you mean: '__spec__'?
>>> print(j.__len__)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: 'list' object is not callable
>>> print(j.__len__)
<method-wrapper '__len__' of list object at 0x00000268830D8BC0>
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>>> #List out available attributes for dir()
>>> # dir() in particular don't have any attributes.But, with the help of dir() we can know the attributes of any 'object' that we want to know.
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>>> # Experiment those attributes using help()
>>> x = 5
>>> v = 7
>>> print(dir(x))
['__abs__', '__add__', '__and__', '__bool__', '__ceil__', '__class__', '__delattr__', '__dir__', '__divmod__', '__doc__', '__eq__', '__float__', '__floor__', '__floordiv__', '__format__', '__ge__', '__getattr__', '__getnewargs__', '__getstate__', '__gt__', '__hash__', '__index__', '__init__', '__init_subclass__', '__int__', '__invert__', '__le__', '__lshift__', '__lt__', '__mod__', '__mul__', '__ne__', '__neg__', '__new__', '__or__', '__pos__', '__pow__', '__radd__', '__rand__', '__rdivmod__', '__reduce__', '__reduce_ex__', '__repr__', '__rfloordiv__', '__rlshift__', '__rmod__', '__rmul__', '__ror__', '__round__', '__rpow__', '__rrshift__', '__rshift__', '__rsub__', '__rtruediv__', '__rxor__', '__setattr__', '__sizeof__', '__str__', '__sub__', '__subclasshook__', '__truediv__', '__trunc__', '__xor__', 'as_integer_ratio', 'bit_count', 'bit_length', 'conjugate', 'denominator', 'from_bytes', 'imag', 'numerator', 'real', 'to_bytes']
>>> print(x.__add__)
<method-wrapper '__add__' of int object at 0x00007FF9936EE3A8>
>>> print(x.__class__)
<class 'int'>
>>> print(x.__float__)
<method-wrapper '__float__' of int object at 0x00007FF9936EE3A8>
>>>
>>> |

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