Integer , Set , Dictionary , Tuple , List Functions:

```
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
AttributeError: 'str' object has no attribute 'any'
>>> s.index('w',0,5)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
ValueError: substring not found
>>> i = 15
>>> dir(i)
['__abs__', '__add__', '__and__', '__bool__', '__ceil__', '__class__', '__delattr__', '__dir__', '__divmod__', '__doc__', '__eq__', '__float__', '__floor
__', '__floordiv__', '__format__', '__ge__', '__getattribute__', '__getnewargs__', '__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']
>>> i.denominator
1
>>> i.imag
0
>>> i.denominator()
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: 'int' object is not callable
>>> i.real
15
>>> i.as_integer_ratio'
  File "<stdin>", line 1
    i.as_integer_ratio'
                      ^
SyntaxError: unterminated string literal (detected at line 1)
>>> i.as_integer_ratio
<built-in method as_integer_ratio of int object at 0x7b6ce44bc2b0>
>>> i.as_integer_ratio()
(15, 1)
>>> tuple
<class 'tuple'>
>>>
```

```
TypeError: 'int' object is not callable
>>> i.real
15
>>> i.as_integer_ratio'
  File "<stdin>", line 1
    i.as_integer_ratio'
                      ^
SyntaxError: unterminated string literal (detected at line 1)
>>> i.as_integer_ratio
<built-in method as_integer_ratio of int object at 0x7b6ce44bc2b0>
>>> i.as_integer_ratio()
(15, 1)
>>> tuple
<class 'tuple'>
>>> i.conjugate
<built-in method conjugate of int object at 0x7b6ce44bc2b0>
>>> i.conjugate()
15
>>> s.isalnum()
False
>>> help(isalnum)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'isalnum' is not defined
>>> help(s.isalnum)

>>> help(s.isalpha)

>>> s.isalpha()
False
>>> s = "hii"
>>> s.isalpha()
True
>>> help(s.isascii)

>>> s.isascii()
True
>>>
```

```
TypeError: count() takes at least 1 argument (0 given)
>>> s.count('a')
2
>>> help(s.center)

>>> help(s.encode)

>>> s.encode()
b'rajlaxmi'
>>> help(s.endswith)

>>> help(s.expandtabs)

>>> s.expandtabs()
'rajlaxmi'
>>> s.expandtabs(10)
'rajlaxmi'
>>> s.expandtabs(100)
'rajlaxmi'
>>> help(s.find)

>>> s.find('x')
5
>>> s.find('x',6)
-1
>>> help(s.format_map')
  File "<stdin>", line 1
    help(s.format_map')
                      ^
SyntaxError: unterminated string literal (detected at line 1)
>>> help(s.format_map)

>>> s.format_map()
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: str.format_map() takes exactly one argument (0 given)
>>> s.format_map('x')
'rajlaxmi'
>>> s.format_map('z')
'rajlaxmi'
>>> s.format_map(5)
'rajlaxmi'
>>> s.format_map(-1)
'rajlaxmi'
>>> help(s.index)

>>> s.index('x')
5
>>> help(s.format)

>>> s.format()
'rajlaxmi'
>>> s.format('sggs')
'rajlaxmi'
>>> s
'rajlaxmi'
```

Screenshot captured
You can paste the image from the clipboard.

```
>>> t = hii { ria}
  File "<stdin>", line 1
    t = hii { ria}
            ^
SyntaxError: invalid syntax
>>> t = hii {ria}
  File "<stdin>", line 1
    t = hii {ria}
            ^
SyntaxError: invalid syntax
>>> t = "hii {ria}"
>>> s = t.format('rajlaxmi')
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
KeyError: 'ria'
>>> s = t.format(ria = 'rajlaxmi')
>>> s
'hii rajlaxmi'
>>> help(s.isalnum)

>>> s.isalnum()
False
>>> help(s.isalpha)

>>> s.isalpha()
False
>>> help(s.isascii)

>>> s.isascii()
True
>>> help(s.isdecimal)

>>> s = 10
>>> s.isdecimal()
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
AttributeError: 'int' object has no attribute 'isdecimal'
>>> s = "sggs"
>>> s.isdecimal()
False
>>> s = "10"
>>> s.isdecimal()
True
>>> help(s.isdigit)

>>> s.isdigit()
True
>>> help(s.isidentifier)

>>> s = 'def'
>>> s.isidentifier()
True
>>> help(s.islower)

>>> s.islower()
True
```

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Screenshot captured
You can paste the image from the clipboard.

```
>>> help(s.isspace)
>>> help(s.isspace)

>>> s = "         "
>>> s.isspace()
True
>>> help(s.istitle)

>>> s = " hii myself rajlaxmi "
>>> s.istitle()
False
>>> s = " Hello, Myself Rajlaxmi "
>>> s.istitle()
True
>>> help(s.isupper)

>>> s.isupper()
False
>>> help(s.join)

>>> x ="Hii ".join(s)
>>> x
' Hii HHii eHii lHii lHii oHii ,Hii  Hii MHii yHii sHii eHii lHii fHii  Hii RHii aHii jHii lHii aHii xHii mHii iHii  '
>>> s = ("Hello" , "World")
>>> x = "#".join(s)
>>> x'
  File "<stdin>", line 1
    x'
     ^
SyntaxError: unterminated string literal (detected at line 1)
>>> x
'Hello#World'
>>> help(s.ljust)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
AttributeError: 'tuple' object has no attribute 'ljust'
>>> help(s.ljust)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
AttributeError: 'tuple' object has no attribute 'ljust'
>>> s.ljust()
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
AttributeError: 'tuple' object has no attribute 'ljust'
>>> s = "sggs"
>>> s.ljust()
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: ljust expected at least 1 argument, got 0
>>> s.ljust(3)
'sggs'
>>> s.ljust(10)
'sggs      '
>>> s = 'SGGS'
>>> s.lower()
```

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Screenshot captured
You can paste the image from the clipboard.

```
>>> s.lstrip()
'sggs      '
>>> s = "         sggs"
>>> s.lstrip()
'sggs'
>>> s.maketrans()
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: maketrans expected at least 1 argument, got 0
>>> s.maketrans('s','a')
{115: 97}
>>> str.maketrans('s','a')
{115: 97}
>>> s.translate(str)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: 'type' object is not subscriptable
>>> x = str.maketrans('s','a')
>>> s.translate(x)
'         agga'
>>> help(s.partition)

>>> s.partition( )
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: str.partition() takes exactly one argument (0 given)
>>> s.partition(/)
  File "<stdin>", line 1
    s.partition(/)
                ^
SyntaxError: invalid syntax
>>> s = "hii everyone myself rajlaxmi"
>>> s.partition("everyone")
('hii ', 'everyone', ' myself rajlaxmi')
>>> help(s.replace)

>>> s.replace("hii" , "Hello")
'Hello everyone myself rajlaxmi'
>>> help(s.rfind)

>>> s.rfind('everyone')
4
>>> help(s.rindex)

>>> s.rindex("myself")
13
>>> help(s.just)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
AttributeError: 'str' object has no attribute 'just'. Did you mean: 'ljust'?
>>> help(s.rjust)

>>> s.rjust(10)
'hii everyone myself rajlaxmi'
>>> s.rjust(20)
'hii everyone myself rajlaxmi'
```

```
'hii everyone myself rajlaxmi'
>>> s.rjust(20)
'hii everyone myself rajlaxmi'
>>> s = " sggs      "
>>> s.rjust(20)
'          sggs       '
>>> s = "sggs"
>>> s.rjust(20)
'                sggs'
>>> s.rpartition("everyone")
('', '', 'sggs')
>>> s = 'hii everyone myself rajlaxmi'
>>>
>>> s.rpartition("everyone")
('hii ', 'everyone', ' myself rajlaxmi')
>>> s.rpartition("myself")
('hii everyone ', 'myself', ' rajlaxmi')
>>> s.rsplit(",")
['hii everyone myself rajlaxmi']
>>> s = 'name, age , year'
>>> s.rsplit(",")
['name', ' age ', ' year']
>>> s = ' sggs      '
>>> s.rstrip()
' sggs'
>>> s.split(",")
[' sggs      ']
>>> s = 'name, age , year'
>>> s.split(",")
['name', ' age ', ' year']
>>> s.splitlines(",")
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: 'str' object cannot be interpreted as an integer
>>> s.splitlines()
['name, age , year']
>>> s = 'name\n year'
>>> s.splitlines()
['name', ' year']
>>> s.startswith('name')
True
>>> s = "   sggs    "
>>> s.strip()
'sggs'
>>> s.swapcase()
'   SGGS    '
>>> s = 'hii everyone myself rajlaxmi'
>>> s.title()
'Hii Everyone Myself Rajlaxmi'
>>> s.upper()
'HII EVERYONE MYSELF RAJLAXMI'
>>> s = "10"
>>> s.zfill(5)
'00010'
>>>
```

```
rajlaxmi@rajlaxmi-HP-Laptop-14s-fq1xxx:~$ python3
Python 3.10.12 (main, Nov 20 2023, 15:14:05) [GCC 11.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> dir(Integer)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'Integer' is not defined
>>> dir(integer)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'integer' is not defined
>>> dir(list)
['__add__', '__class__', '__class_getitem__', '__contains__', '__delattr__', '__delitem__', '__dir__', '__doc__', '__eq__', '__format__', '__ge__', '__getattribute__', '__getitem__', '__gt__', '__hash__', '__iadd__', '__imul__', '__init__', '__init_subclass__', '__iter__', '__le__', '__len__', '__lt__', '__mul__', '__ne__', '__new__', '__reduce__', '__reduce_ex__', '__repr__', '__reversed__', '__rmul__', '__setattr__', '__setitem__', '__sizeof__', '__str__', '__subclasshook__', 'append', 'clear', 'copy', 'count', 'extend', 'index', 'insert', 'pop', 'remove', 'reverse', 'sort']
>>> dir(integer)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'integer' is not defined
>>> dir(String)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'String' is not defined
>>> i = 10
>>> dir(i)
['__abs__', '__add__', '__and__', '__bool__', '__ceil__', '__class__', '__delattr__', '__dir__', '__divmod__', '__doc__', '__eq__', '__float__', '__floor__', '__floordiv__', '__format__', '__ge__', '__getattribute__', '__getnewargs__', '__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']
>>> i.bit_count
<built-in method bit_count of int object at 0x7ed6a0f00210>
>>> help(bit_count)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'bit_count' is not defined
>>> help(conjugate)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'conjugate' is not defined
>>> help(i.bit_count)

>>> help(i.as_integer_ratio)

>>> i.as_integer_ratio()
(10, 1)
>>> help(i.bit_count)

>>> i.bit_count()
2
>>> help(i.bit_length)

>>> i.bit_length()
4
>>> i.bin()
Traceback (most recent call last):
```

```
>>> i.as_integer_ratio()
(10, 1)
>>> help(i.bit_count)

>>> i.bit_count()
2
>>> help(i.bit_length)

>>> i.bit_length()
4
>>> i.bin()
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
AttributeError: 'int' object has no attribute 'bin'
>>> help(i.conjugate)

>>> i.conjugate()
10
>>> help(i.denominator)

>>>
>>> help(i.denominator)

>>> i.denominator()
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: 'int' object is not callable
>>> help(i.from_bytes)

>>> i.from_bytes()
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: from_bytes() missing required argument 'bytes' (pos 1)
>>> i.from_bytes(3)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: from_bytes() missing required argument 'byteorder' (pos 2)
>>> help(i.from_bytes)

>>> help(i.from_bytes)

>>> i = 1 +2j
>>> help(i.imag)

>>> help(i.real)

>>> help(i.to_bytes)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
AttributeError: 'complex' object has no attribute 'to_bytes'
>>> i = 10
>>> help(i.to_bytes)

>>>
```

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rajlaxmi@rajlaxmi-HP-Laptop-14s-fq1xxx: ~

```
rajlaxmi@rajlaxmi-HP-Laptop-14s-fq1xxx:~$ python3
Python 3.10.12 (main, Nov 20 2023, 15:14:05) [GCC 11.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> help(tuple)

>>> help(Tuple)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'Tuple' is not defined. Did you mean: 'tuple'?
>>> help(set)

>>>
>>> dir(tuple)
['__add__', '__class__', '__class_getitem__', '__contains__', '__delattr__', '__dir__', '__doc__', '__eq__', '__format__', '__ge__', '__getattribute__', '__getitem__', '__getnewargs__', '__gt__', '__hash_
_', '__init__', '__init_subclass__', '__iter__', '__le__', '__len__', '__lt__', '__mul__', '__ne__', '__new__', '__reduce__', '__reduce_ex__', '__repr__', '__rmul__', '__setattr__', '__sizeof__', '__str_
_', '__subclasshook__', 'count', 'index']
>>> tuple = (1,2)
>>>
KeyboardInterrupt
>>> help(tuple.__subclasshook__)

>>> help(tuple.count)

>>> tuple.count()
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: tuple.count() takes exactly one argument (0 given)
>>> tuple.count(4)
0
>>> tuple.count(2)
1
>>> t = (1,1,1,3,2,5,3)
>>> tuple.count(1)
1
>>> tuple.count(3)
0
>>> help(tuple.count)

>>> tuple.count('1')
0
>>> tuple.count(5)
0
>>> tuple.count(1)
1
>>> tuple.count(2)
1
>>> t.count(1)
3
>>> help(tuple.count)

>>> help(tuple.index)

>>> tuple.index(3)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
ValueError: tuple.index(x): x not in tuple
```

```
>>> tuple.index(3)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
ValueError: tuple.index(x): x not in tuple
>>> t.index(3)
3
>>> dir(set)
['__and__', '__class__', '__class_getitem__', '__contains__', '__delattr__', '__dir__', '__doc__', '__eq__', '__format__', '__ge__', '__getattribute__', '__gt__', '__hash__', '__iand__', '__i
t_subclass__', '__ior__', '__isub__', '__iter__', '__ixor__', '__le__', '__len__', '__lt__', '__ne__', '__new__', '__or__', '__rand__', '__reduce__', '__reduce_ex__', '__repr__', '__ror__', '__rsub__', '__
_xor__', '__setattr__', '__sizeof__', '__str__', '__sub__', '__subclasshook__', '__xor__', 'add', 'clear', 'copy', 'difference', 'difference_update', 'discard', 'intersection', 'intersection_update', 'i
sdisjoint', 'issubset', 'issuperset', 'pop', 'remove', 'symmetric_difference', 'symmetric_difference_update', 'union', 'update']
>>> s = 3,4
>>> help(s.add)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
AttributeError: 'tuple' object has no attribute 'add'
>>> s ={1,4}
>>> type(s)
<class 'set'>
>>> help(s.add)

>>> s.add()
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: set.add() takes exactly one argument (0 given)
>>> s.add(6)
>>> s
{1, 4, 6}
>>> help(s.add)

>>> s.add('s')
>>> s
{1, 4, 's', 6}
>>>
KeyboardInterrupt
>>> help(s.clear)

>>> s.clear()
>>> s
set()
>>> help(s.difference)

>>> s = {1,4}
>>> s.difference()
{1, 4}
>>> help(s.difference)

>>> q = {3,4}
>>> x = s.difference(q)
>>> x
{1}
>>> q = {1,3}
>>> x = s.difference(q)
>>> x
{4}
>>> x = q.difference(s)
```

Activities   Terminal   Aug 2 01:14

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```
>>> s.copy()
{1, 4}
>>> help(s.difference_update)

>>> x.difference_update()
>>> x
{3}
>>> x
{3}
>>> x = difference_update()
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'difference_update' is not defined
>>> x = s.difference_update()
>>> x = s.difference_update(q)
>>> x
>>> x
>>> help(s.discard)

>>> s
{4}
>>> s = {1,2,4}
>>> s.discard()
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: set.discard() takes exactly one argument (0 given)
>>> s.discard(2)
>>> s
{1, 4}
>>> help(s.intersection)

>>> q = {1,3}
>>> x = s.intersection(q)
>>> x
{1}
>>> help(intersection_update)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'intersection_update' is not defined
>>> help(s.intersection_update)

>>> x =s.intersection_update(q)
>>> x
>>> x = s.intersection_update(q)
>>> x
>>> s = {2 , 4 ,5}
>>> q = { 4 , 3 , 1}
>>> x = s.intersection_update(q)
>>> x
>>>
>>> help(s.isdisjoint)

>>> s.isdisjoint()
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: set.isdisjoint() takes exactly one argument (0 given)
```

Screenshot captured
You can paste the image from the clipboard.

```
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: set.isdisjoint() takes exactly one argument (0 given)
>>> s.isdisjoint(q)
False
>>> s = {2 , 6 ,5}
>>> x = s.intersection(q)
>>> x
set()
>>> s.isdisjoint(q)
True
>>> help(s.issubset)

>>> s = {2 , 6 ,5}
>>> q = { 2 }
>>> q.issubset(s)
True
>>> s.issubset(q)
False
>>> help(s.issuperset)

>>> (s.issuperset(q)
...
[1]+  Stopped                 python3
rajlaxmi@rajlaxmi-HP-Laptop-14s-fq1xxx:~$ python3
Python 3.10.12 (main, Nov 20 2023, 15:14:05) [GCC 11.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> s = {2 , 6 , 5}
>>> q = {2}
>>> s.issuperset(q)
True
>>> help(s.pop)

>>> s.pop(2)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: set.pop() takes no arguments (1 given)
>>> s.pop()
2
>>> s.pop()
5
>>> s.pop()
6
>>> s.pop()
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
KeyError: 'pop from an empty set'
>>> help(s.remove)

>>> s = {2 , 6 , 5}
>>> s.remove(2)
>>> s
{5, 6}
>>> help(s.symmetric_difference)

>>> s = {2 , 6 , 5}
```

rajlaxmi@rajlaxmi-HP-Laptop-14s-fq1xxx: ~

```
Type "help", "copyright", "credits" or "license" for more information.
>>> s = {2 , 6 , 5}
>>> q = {2}
>>> s.issuperset(q)
True
>>> help(s.pop)

>>> s.pop(2)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: set.pop() takes no arguments (1 given)
>>> s.pop()
2
>>> s.pop()
5
>>> s.pop()
6
>>> s.pop()
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
KeyError: 'pop from an empty set'
>>> help(s.remove)

>>> s = {2 , 6 , 5}
>>> s.remove(2)
>>> s
{5, 6}
>>> help(s.symmetric_difference)

>>> s = {2 , 6 , 5}
>>> q= { 2,6,4}
>>> s.symmetric_difference()
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: set.symmetric_difference() takes exactly one argument (0 given)
>>> s.symmetric_difference(q)
{4, 5}
>>> help(s.symmetric_difference_update)

>>> s.symmetric_difference_update(q)
>>> s
{4, 5}
>>> q.symmetric_difference_update(s)
>>> q
{2, 5, 6}
>>> help(s.union)

>>> s = {2 , 6 , 5}
>>> q= { 2,6,4}
>>> s.union(q)
{2, 4, 5, 6}
>>> help(s.update)

>>> s.update(q)
>>>
```