kiruba.py - C:/Users/ELCOT/AppData/Local/Programs/Python/Python310/kiruba.py (3.10.7)

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```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
'hello world'
'hello world'
"hello"
'hello'
my_dog=['samy','sam']
print(type(my_dog))
<class 'list'>
print(int(float),str,list,tuple,dictionary,set,bool)
Traceback (most recent call last):
  File "<pyshell#4>", line 1, in <module>
    print(int(float),str,list,tuple,dictionary,set,bool)
TypeError: int() argument must be a string, a bytes-like object or a real number, not 'type'

print("hello I'm Kiruba")
hello I'm Kiruba

print("hello 1 \n hello 2")
hello 1
 hello 2

print("hello 1 \t hello 2")
hello 1          hello 2

len("hello string")
12

len("now i'am using decode")
21

s="hello"
s
'hello'
print(s)
hello
s[0]
'h'

s[3]
'l'
```

Ln: 28 Col: 0

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```
s[1:]
Traceback (most recent call last):
  File "<pyshell#23>", line 1, in <module>
    s[1:]
NameError: name 'l' is not defined
s[1:]
'ello'

s[1:3]
'el'

s[:3]
'hel'


s[:]
'hello'

s[-1]
'o'

s[-3]
'l'
s[-4]
'e'
s[::1]
'hello'
s[::2]
'hlo'

s[::3]
'hl'
s[::4]
'ho'
s[::-1]
'olleh'

s=s+"concatenation is possible"
s
'helloconcatenation is possible'
```

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```
s=s+"concatenation is possible"
s
'helloconcatenation is possible'
s*3
'helloconcatenation is possiblehelloconcatenation is possiblehelloconcatenation is possible'

a="welcome students"
a
'welcome students'
a.upper()
'WELCOME STUDENTS'

a.lower()
'welcome students'
a.split()
['welcome', 'students']

a.split('c')
['wel', 'ome students']
a.split('t')
['welcome s', 'uden', 's']
"insert anthoer string with curly braces: {}".format('this is the inserted string')
'insert anthoer string with curly braces: this is the inserted string'

a="comment checking"#this is comment
a
'comment checking'

MULTILINE COMMENT
SyntaxError: invalid syntax
a="before restart"
print(a)
before restart

a="after restart"
a
'after restart'

========== RESTART: Shell ==========
a=[]
type(a)
```

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kiruba.py - C:/Users/ELCOT/AppData/Local/Programs/Python/Python310/kiruba.py (3.10.7)

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```
========== RESTART: Shell ==========
a=[]
type(a)
<class 'list'>
my_list=[1,2,3]
my_list=["it is beautiful",23,100,2.55,'o']
print
<built-in function print>
print(my_list)
['it is beautiful', 23, 100, 2.55, 'o']
len(my_list)
5

my_list=["one","two","three",4,6,8]
my_list[0]
'one'

my_list[:3]
['one', 'two', 'three']
my_list[1:]
['two', 'three', 4, 6, 8]
my_list
['one', 'two', 'three', 4, 6, 8]

my_list=my_list+["reassign list"]
my_list
['one', 'two', 'three', 4, 6, 8, 'reassign list']
my_list*3
['one', 'two', 'three', 4, 6, 8, 'reassign list', 'one', 'two', 'three', 4, 6, 8, 'reassign list', 'one', 'two', 'three', 4, 6, 8, 'reassign list']

my_list
['one', 'two', 'three', 4, 6, 8, 'reassign list']


list1=[1,2,3]
list1
[1, 2, 3]
list1.append("appending to the present list")
list1
[1, 2, 3, 'appending to the present list']
list1.pop()
```

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kiruba.py - C:/Users/ELCOT/AppData/Local/Programs/Python/Python310/kiruba.py (3.10.7)

File Edit Format Run Options Window Help

```
========== RESTART: Shell ==========
a=[]
type(a)
<class 'list'>
my_list=[1,2,3]
my_list=["it is beautiful",23,100,2.55,'o']
print
<built-in function print>
print(my_list)
['it is beautiful', 23, 100, 2.55, 'o']
len(my_list)
5

my_list=["one","two","three",4,6,8]
my_list[0]
'one'

my_list[:3]
['one', 'two', 'three']
my_list[1:]
['two', 'three', 4, 6, 8]
my_list
['one', 'two', 'three', 4, 6, 8]

my_list=my_list+["reassign list"]
my_list
['one', 'two', 'three', 4, 6, 8, 'reassign list']
my_list*3
['one', 'two', 'three', 4, 6, 8, 'reassign list', 'one', 'two', 'three', 4, 6, 8, 'reassign list', 'one', 'two', 'three', 4, 6, 8, 'reassign list']

my_list
['one', 'two', 'three', 4, 6, 8, 'reassign list']


list1=[1,2,3]
list1
[1, 2, 3]
list1.append("appending to the present list")
list1
[1, 2, 3, 'appending to the present list']
list1.pop()
```

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kiruba.py - C:/Users/ELCOT/AppData/Local/Programs/Python/Python310/kiruba.py (3.10.7)

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```
listl
[1, 2, 3]
listl.append("appending to the present list")
listl
[1, 2, 3, 'appending to the present list']
listl.pop()
'appending to the present list'
listl
[1, 2, 3]
listl.pop(0)
1
listl
[2, 3]
listl.pop(1)
3
listl
[2]

========== RESTART: Shell ==========
new_list=['a','e','i','o','u']
new_list
['a', 'e', 'i', 'o', 'u']
new_list.reverse()
new_list()
Traceback (most recent call last):
  File "<pyshell#117>", line 1, in <module>
    new_list()
TypeError: 'list' object is not callable
new_list
['u', 'o', 'i', 'e', 'a']

new_list.sort()
new_list
['a', 'e', 'i', 'o', 'u']

========== RESTART: Shell ==========
listl=[1,2,3]
list2=[4,5,6]
list3=[7,8,9]
matrix=[listl,list2,list3]
matrix
```

Ln: 193 Col: 0

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kiruba.py - C:/Users/ELCOT/AppData/Local/Programs/Python/Python310/kiruba.py (3.10.7)

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```
========== RESTART: Shell ==========
dict={}
print(type(dict))
<class 'dict'>
my_dict={'key1':'value1','key2':'value2'}
my_dict['key2']
'value2'

my_dict={'key1':'value1','key2':[1,2,3],'key3':['item0','item1',item2']}
SyntaxError: closing parenthesis ']' does not match opening parenthesis '{'
my_dict={'key1':'value1', 'key2':[1,2,3], 'key3':['item0','item1',item2']}

SyntaxError: unterminated string literal (detected at line 1)
my_dict={'key1':'value1', 'key2': [1,2,3], 'key3': ['ir1','ir2']}

my_dict

{'key1': 'value1', 'key2': [1, 2, 3], 'key3': ['ir1', 'ir2']}
my_dict['key3']

['ir1', 'ir2']
my_dict['key3'][0]

'ir1'
my_dict['key3'][0].upper()

'IR1'
my_dict['key3'][0].lower()

'ir1'
my_dict['key1']=123

my_dict

{'key1': 123, 'key2': [1, 2, 3], 'key3': ['ir1', 'ir2']}


d={}

d['animal']='Dog'
```

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kiruba.py - C:/Users/ELCOT/AppData/Local/Programs/Python/Python310/kiruba.py (3.10.7)

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```
d

{'animal': 'Dog', 'answer': 50}
d.keys()

dict_keys(['animal', 'answer'])
d.values()

dict_values(['Dog', 50])
d.items()

dict_items([('animal', 'Dog'), ('answer', 50)])

========== RESTART: Shell ==========
t=()

type(t)

<class 'tuple'>
t=(1,2,3)

len(t)

3
t[0]

1
t.index[2]

Traceback (most recent call last):
  File "<pyshell#166>", line 1, in <module>
    t.index[2]
TypeError: 'builtin_function_or_method' object is not subscriptable
t.index(2)

1
t.count(2)

1

========== RESTART: Shell ==========
```

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kiruba.py - C:/Users/ELCOT/AppData/Local/Programs/Python/Python310/kiruba.py (3.10.7)

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```
========== RESTART: Shell ==========
x=set()

print(type(x))

<class 'set'>
x.add(1)

x

{1}
x.add(2)

x

{1, 2}
x.add(1)

x

{1, 2}
list1=[1,1,3,1,6,8,9,8,9,6,5]

set(list1)

{1, 3, 5, 6, 8, 9}

========== RESTART: Shell ==========
a=True

a

True
1>2

False
>>> b=None
...
>>> print(b)
...
None
```

Type here to search

Ln: 306 Col:

kiruba.py - C:/Users/ELCOT/AppData/Local/Programs/Python/Python310/kiruba.py (3.10.7)

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```
========== RESTART: Shell ==========
a=True

a

True
1>2

False
>>> b=None
...
>>> print(b)
...
None
>>>
>>>
========== RESTART: Shell ==========
>>> 2==2
...
True
>>> 2==3
...
False
>>> 2!=1
...
True
>>> 1!=1
...
False
>>> 2<1
...
False
>>> 2<5
...
True
>>> 2<=3
...
True
>>> 2>=2
...
True
```

Ln: 346 Col: 0