pythonBasix

July 17, 2023

[3]:
```
1+1
```

[3]:
```
2
```

[7]:
```
a=10
abc=1
```

[10]:
```
abc+a
```

[10]:
```
11
```

[11]:
```
type(abc)
```

[11]:
```
int
```

[12]:
```
d = "arnob Da"
type(d)
```

[12]:
```
str
```

[13]:
```
n = True
```

[14]:
```
type(n)
```

[14]:
```
bool
```

[15]:
```
m = False
n+m
```

[15]:
```
1
```

[16]:
```
True *True
```

[16]:
```
1
```

[17]:
```
True * False
```

[17]:
```
0
```

[19]:
```
#complex number is combination of real number and imaginary number
```

[20]:
```
v = 5+8j
type(v)
```

[20]:
```
complex
```

[25]:
```
v.real
```

[25]:
```
5.0
```

[1]:
```
a = 5+4j
type(a.imag)
```

[1]:
```
float
```

[2]:
```
a.imag
```

[2]:
```
4.0
```

[2]:
```
s = "pwskills"
s[0]#forward indexing
s[::2]
```

[2]:
```
'psil'
```

[2]:
```
s[-1]#backward indexing start from -1 and from last position
```

[2]:
```
's'
```

[4]:
```
s[0:3]#will go for index 2 but before the index 3
```

[4]:
```
'pws'
```

[8]:
```
s[0:8:2]#start:where i want to go:how much index i want to jump
```

[8]:
```
'psil'
```

[9]:
```
s[0:4:2]#remember 2nd ratio will be the last index+1
```

[9]:
```
'ps'
```

[3]:
```
s[::2]
```

[3]:
```
'psil'
```

[4]:
```
s[2::0]
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
Cell In[4], line 1
----> 1 s[2::0]

ValueError: slice step cannot be zero
```

[5]:
```
s[::-1]
```

[5]: 'sllikswp'

[6]:
```
s[2:7:-1]#going to 2-7 in positive side but its jumps to -Ve
```

[6]: ''

[7]:
```
s[8:0]#since i am going to positive it can not exceed its limit
```

[7]: ''

[8]:
```
s[8:0:-1]
```

[8]: 'slliksw'

[9]:
```
s[8:-1:-1]
```

[9]: ''

[10]:
```
s[-2:-8:1]
```

[10]: ''

[2]:
```
s = "pwskills"
s[8:0]#it by default jumps to positive side
```

[2]: ''

[3]:
```
s[::1]
```

[3]: 'pwskills'

[4]:
```
s[::-1]#nothing given except jump
```

[4]: 'sllikswp'

[5]:
```
s[:-8:-1]
```

[5]:
```
'slliksw'
```

[6]:
```
s[1::-1]
```

[6]:
```
'wp'
```

[7]:
```
s[:-900:-1]
```

[7]:
```
'sllikswp'
```

[8]:
```
c = 200# there is no index so it is a complete number
#and thats why no single item will exit
```

[9]:
```
s1 = "This is my string class"
len(s1)
```

[9]:
```
23
```

[12]:
```
s1.find('s')#return the lowest index
```

[12]:
```
3
```

[13]:
```
s1.find("is")#dot then press tab
```

[13]:
```
2
```

[14]:
```
s1.count('s')
```

[14]:
```
5
```

[16]:
```
s1.count('z')
```

[16]:
```
0
```

[17]:
```
s1.count("st")
```

[17]:
```
1
```

[18]:
```
s1.upper()
```

[18]:
```
'THIS IS MY STRING CLASS'
```

[19]:
```
s1.lower()
```

[19]:
```
'this is my string class'
```

[20]:
```
s1.capitalize()
```

[20]:
```
'This is my string class'
```

[21]:
```
s1.title()
```

[21]:
```
'This Is My String Class'
```

[22]:
```
s
```

[22]:
```
'pwskills'
```

[23]:
```
s+1
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[23], line 1
----> 1 s+1

TypeError: can only concatenate str (not "int") to str
```

[25]:
```
s+" Arnob"
```

[25]:
```
'pwskills Arnob'
```

[26]:
```
s+'1'
```

[26]:
```
'pwskills1'
```

[27]:
```
s+str(1)#type cast
```

[27]:
```
'pwskills1'
```

[28]:
```
s*3
```

[28]:
```
'pwskillspwskillspwskills'
```

[29]:
```
s/4
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[29], line 1
----> 1 s/4

TypeError: unsupported operand type(s) for /: 'str' and 'int'
```

[1]:
```
'don't copy paste in my class'
```

```
  Cell In[1], line 1
    'don't copy paste in my class'
                                  ^
SyntaxError: unterminated string literal (detected at line 1)
```

[2]:
```
'don"t copy paste my class'
```

[2]:
```
'don"t copy paste my class'
```

[3]:
```
s3="""This is my first class of programming. i have learnt
      data types variable , string basic , indexing """
s3
```

[3]:
```
'"This is my first class of programming. i have learnt\n      data types
variable , string basic , indexing '
```

[ ]:
```

```