

type casting()

```
In [1]: i=4.5  
i
```

```
Out[1]: 4.5
```

```
In [2]: type(i)
```

```
Out[2]: float
```

```
In [3]: s = int(i)
```

```
In [4]: type(s)
```

```
Out[4]: int
```

```
In [5]: int(True)
```

```
Out[5]: 1
```

```
In [6]: int(1.2)
```

```
Out[6]: 1
```

Variables

```
In [7]: i = 10  
i
```

```
Out[7]: 10
```

```
In [8]: i= 'hello'
```

```
In [9]: i
```

```
Out[9]: 'hello'
```

String Functions

String Formating

```
In [10]: num1=20  
num2=30  
add=num1+num2  
print('The addition of {} and {} is= {}'.format(num1,num2,add))
```

```
The addition of 20 and 30 is= 50
```

```
In [11]: num1=20  
num2=30  
add=num1+num2  
print('The addition of ',num1,'and ',num2,' is= ',add)
```

```
The addition of  20 and  30  is=  50
```

```
In [12]: n1 = 10  
n2 = 22  
n3 = 31  
avg = round((n1+n2+n3)/3,2)  
avg
```

```
Out[12]: 42.33
```

```
In [13]: add = n1 + n2
```

```
In [14]: print(f'the addition of {n1} and {n2} is = {add}')
```

```
the addition of 10 and 22 is = 32
```

```
In [15]: print('the addition of {} and {} is = {}'.format(n1,n2,add))
```

```
the addition of 10 and 22 is = 32
```

end

```
In [1]: print('hello')
print('sir')
```

```
hello
sir
```

```
In [2]: print('hello',end = ' ' )
print('sir')
```

```
hello sir
```

Seprator Sep()

```
In [18]: print('hello','hi','what',sep='@')
```

```
hello@hi@what
```

```
In [19]: print(3, '.')
```

```
3 .
```

```
In [20]: print(3, '.',sep='')
```

```
3.
```

```
In [21]: s = 'helllo'
print(id(s))
```

```
1589038405232
```

```
In [22]: s = s+'world'
print(id(s))
```

```
1589038247408
```

```
In [23]: s = 'bye'
```

```
In [24]: print(id(s))
```

```
1589038406320
```

```
In [25]: print(True*2)
```

```
2
```

```
In [26]: poll_data = 7
print(type(poll_data))
```

```
<class 'int'>
```

```
In [27]: list(range(9))
```

```
Out[27]: [0, 1, 2, 3, 4, 5, 6, 7, 8]
```

```
In [28]: obj = ()
print(type(obj))
```

```
<class 'tuple'>
```

```
In [29]: p = 10
q = 10
r = q
type(p),hex(id(p))
type(q),hex(id(q))
type(r),hex(id(r))
```

```
Out[29]: (int, '0x7ffa4428c448')
```

```
In [30]: p,q,r = 10,2.3,'mine'
p,q,r
```

```
Out[30]: (10, 2.3, 'mine')
```

28

```
Out[32]: True
```

```
Out[33]: True
```

```
Out[35]: ('str1', 'str2')
```

Out[36]: str

```
Out[37]: 'datstdatstdatstdatstdatstdatstdatstdatstdatstdatstdats'
```

```
Out[38]: 20
```

Out[40]: 12

```
Out[41]: 'n'
```

```
Out[42]: 'e'
```

```
Out[43]: 'hello pytho'
```

```
Out[44]: 'n'
```

```
Out[45]: (20, 10)
```

```
In [46]: x = 5  
y = 2  
print(x//y)
```

2

```
In [47]: x = 'y'
        y = 'x'
        x+y
```

```
Out[47]: 'yx'
```

dict , list ,

```
In [48]: dict = {'hello':20}
```

```
In [49]: if 'hello' in dict:
        print(True)
```

```
True
```

```
In [50]: fruits = ['apple', 'banana', 'orange']
```

Enumerate()

```
In [51]: for index , fruits in enumerate(fruits):
        print(index, fruits)
```

```
0 apple
1 banana
2 orange
```

And,Or Operators

```
In [52]: print('True != False: ', True != False)
```

```
True != False:  True
```

```
In [53]: print('True and True: ', True and True)
```

```
True and True:  True
```

```
In [54]: print('True or False:', True or False)
```

```
True or False: True
```

```
In [55]: language = 'PYTHONN'
        a,b,c,d,e,f,g= language
        print(a)
```

```
P
```

```
In [56]: print(g,f)
```

```
N N
```

Printing functions

```
In [57]: print('I hope every one enjoying the python challenge.\nDo you ?') # Line break
```

```
I hope every one enjoying the python challenge.
Do you ?
```

```
In [58]: print('I hope every one enjoying the python challenge.Do you ?') # Line break
```

```
I hope every one enjoying the python challenge.Do you ?
```

```
In [59]: print('This is a back slash  symbol /') #To write a back slash
```

```
This is a back slash  symbol /
```

```
In [60]: print('Day 1\t3\t5\t10\t5')
```

```
Day 1    3        5        10        5
```

```
In [61]: print('In every programming language it starts with \"Hello, World!\")
```

```
In every programming language it starts with "Hello, World!"
```

Capitalize()

```
In [62]: v = 'this is small case python'
```

```
In [63]: print(v.capitalize())
```

This is small case python

Count()

```
In [64]: v = 'this is small case python'
```

```
In [65]: print(v.count('s'))
```

4

```
In [66]: print(v.count('s',6,10))
```

2

ends with()

```
In [67]: v = 'this is small case python'
```

```
In [68]: print(v.endswith('on'))
```

True

```
In [69]: print(v.endswith('se'))
```

False

```
In [70]: print(v.endswith('thon'))
```

True

Expandtab()

```
In [71]: v = 'this\tis\tsmall\tcase\tpython'
```

```
In [72]: print(v.expandtabs()) #default size is 10
```

this is small case python

```
In [73]: print(v.expandtabs(15))
```

this is small case python

find()

```
In [74]: v = 'thirty days of python training'
```

```
In [75]: v[-1]
```

```
Out[75]: 'g'
```

```
In [76]: print(v.find('y'))
```

5

isalnum()

```
In [77]: v = 'thirtydaysofpythontraining'
```

```
In [78]: print(v.isalnum()) #checks if any alphanumeric character present in string
```

True

```
In [79]: v1 = "30daysofpython"
```

```
In [80]: print(v1.isalnum())
```

True

isalpha()

```
In [81]: v = 'thirtydaysofpythontesting'
```

```
In [82]: print(v.isalpha()) #checks if only alphabets present in string
```

True

```
In [83]: v2 = '30daysofpythontesting'
```

```
In [84]: print(v2.isalpha())
```

False

index()

```
In [85]: v = 'thirty days of python training'
```

```
In [86]: print(v.index('a')) #returns the index of first appearance
```

8

```
In [87]: print(v.index('of'))
```

12

isdigit()

```
In [88]: x = 'thirty days of fsds'
```

```
In [89]: print(x.isdigit())
```

False

```
In [90]: x = '30 days'
```

```
In [91]: print(x.isdigit())
```

False

```
In [92]: x = '300'
```

```
In [93]: print(x.isdigit())
```

True

isdecimal()

```
In [94]: print(x.isdecimal())
```

True

```
In [95]: x = '300.5'
```

```
In [96]: print(x.isdecimal())
```

False

isidentifier()

```
In [97]: x = '30daysofpython'
```

```
In [98]: print(x.isidentifier())
```

False

```
In [99]: x = 'daysofpython'
```

```
In [100]: print(x.isidentifier())
```

True

isnumeric()

```
In [101... x = '30'
```

```
In [102... print(x.isnumeric()) #checks if value is numeric or not
```

True

```
In [103... x = 'hello'
```

```
In [104... print(x.isnumeric())
```

False

#join function

```
In [105... web_tech = ['HTML', 'CSS', 'JavaScript', 'React']
```

```
In [106... result = '#'.join(web_tech)
print(result)
```

HTML#,CSS#,JavaScript#,React

```
In [107... print(type(web_tech))
print(type(result))
```

<class 'list'>
<class 'str'>

strip()

```
In [108... x = '!thirty days of python!'
```

```
In [109... x =x.strip('!')
x
```

```
Out[109... 'thirty days of python'
```

replace()

```
In [110... x
```

```
Out[110... 'thirty days of python'
```

```
In [111... print(x.replace('python','coding'))
```

thirty days of coding

split()

```
In [112... x = 'thirty days of python'
```

```
In [113... print(x.split())
```

['thirty', 'days', 'of', 'python']

swapcase()

```
In [114... x
```

```
Out[114... 'thirty days of python'
```

```
In [115... x =print(x.swapcase())
x
```

THIRTY DAYS OF PYTHON

startswith()

```
In [116... x = 'thirty days of python'
```

```
In [117... print(x.startswith('thirty'))
```

True

```
In [ ]:
```