Python tasks data conversion programming

1. Data conversion : int-float-string-boolean

>>> a=10

>>>

>>> print(type(a))

<class 'int'>

>>> b=float(a)

>>> print(b)

10.0

>>> c=str(b)

>>> print(c)

10.0

>>> d=bool(c)

>>> print(c)

10.0

>>> print(d)

True

>>>

1. Conversion float -string-integer-boolean

>>> a=10.55

>>> print(type(a))

<class 'float'>

>>> b=str(a)

>>> print(b)

10.55

>>> c=int(b)

Traceback (most recent call last):

File "<pyshell#4>", line 1, in <module>

c=int(b)

ValueError: invalid literal for int() with base 10: '10.55'

>>> c=int(a)

>>> print(a)

10.55

>>> d=bool(a)

>>> print(d)

True

>>> e=bool(b)

>>> print(b)

10.55

>>>

1. Conversion Boolean-int-float-str

Error data

1. conversion string- int-float-boolean

a='10'

>>> print(type(a))

<class 'str'>

>>> b=int(a)

>>> print(b)

10

>>> c=float(b)

>>> print(b)

10

>>> print(c)

10.0

>>> d=bool(c)

>>> print(d)

True

>>>

1. radius =3.8 height =5.6 find area of cone.

> # area of cone

>>> # area of cone formula 1/3\*pi\*r\*r\*h

>>> # requirements

>>> # radius, height, pi (constant value)\

>>> # pi(constant value) = 3.14

>>>

>>> r=3.8 #radius

>>> h= 5.6 # height

>>> pi=3.14 # constant value

>>> area of cone = 1/3\*pi\*r\*r\*h) # area of cone formula

SyntaxError: invalid syntax

>>> area = 1/3\*pi\*r\*r\*h # area of cone formula\

>>> print ( area)

84.63765333333332

>>> # ans = 84.63765333333332