

Homework

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1) # float object demo Program

$a = 10.8$ → # Ref 'a' points to object 10.8
Print(a) → # 10.8 value of object 'a' i.e 10.8
Print(type(a)) → # ~~int~~ <class 'float'>
Print(id(a)) → # Address of object 'a' (may be 1000)
 $b = 25$ → # Ref 'b' points to object 25.
Print(b) → # value of object 'b' i.e 25.
Print(type(b)) → # Type of object 'b' <class float>
 $c = .689$ → # Ref 'c' points to object .689
Print(c) → # value of object 'c' i.e .689
 $d = 3.4E2$ → # Ref 'd' points to 3.4E2
Print(d) → # value of object 'd' i.e 3.4×10^2
Print(type(d)) → # Type of object 'd' i.e <class float>
 $e = 9.62E-2$ → # Ref 'e' points to 9.62E-2
Print(e) → # value of object 'e' i.e 9.62×10^{-2}
Print(9.8.2) → # Syntax error it is not a int (or) float class value

2) # Complex object demo Program

$a = 3+4j$ → # Ref 'a' points to object 3+4j
Print(a) → # value of object 'a' i.e 3+4j
Print(type(a)) → # Type of object 'a' i.e <class complex number>
Print(id(a)) → # Address of object 'a' i.e <may be 1000>
Print(a.real) → # Real
Print(b.imag) → # value of complex number <3.0>
Print(5+56) → # Imag value of complex number <4.0>
Print(3+4i) → # No becoz imag is after 'i'
Print(4+j) → # No due to 'j'
Print(4+1j) → # No becoz imag is missing
Print(4+j) → # <4+0j>

`print(True + True + True)` → # True = 1

Result ⇒ 1 + 1 + 1 = 3

`print(25 + 10.8 + True)` → # True = 1

Result 25 + 10.8 + 1
= 36.8

`print(True > False)` → # True = 1, False = 0
Result i.e "True"

`print(True)` → # bool class object "True"

`print(False)` → # bool class object "False"

`print(true)` → # Error due to do not
"t" as "t"

`print(false)` → # Error due to do not
"f" as "f"

5) Find outputs

`a = 006247` → # Let 'a' points to object

`print(a)` → # $6 \times 8^3 + 2 \times 8^2 + 4 \times 8^1 + 7 \times 8^0$
⇒ 3072 + 128 + 32 + 7
⇒ 3239

`print(type(a))` ⇒ # Type of object 'a' i.e

`print(id(a))` ⇒ # Address of object 'a' i.e

<may be 1000>

`b = 006247` → # Let 'b' points to object '006247'

`print(id(b))` → # Address of object 'b' i.e

<may be 1000>

`print(b)` → # Value of object 'b' i.e "3239"

`c = 3239` → # Let 'c' points to object 3239 but class

`print(c)` → # Value of object 'c' i.e 3239

$\text{print}(\text{id}(c)) \rightarrow$ # address of object 'c' i.e

< may be 1000 >

print(009248) \rightarrow # Error due to 0,9,8

6) Find outputs

9 = 0xA7B9 + 4 & 'a' points to object 0xA7B9

`Print(a)` → # value of Object 'a' i.e

$$\Rightarrow 10 \times 16^3 + 7 \times 16^2 + 11 \times 16^1 + 9 \times 16^0$$
$$\Rightarrow 140960 + 1792 + 176 + 9$$

Q# 42937

`Print(type(a))` → # Type of object 'a' i.e.

$b = 0xBEEF \rightarrow \#R01, \dots, \langle \text{class "put"} \rangle$

print(b) → # value of object "b" i.e

$$11 \times 16^3 + 14 \times 16^2 + 14 \times 16^1 + 15 \times 16^0$$
$$\Rightarrow \# 45056 + 3584 + 224 + 15$$

$\Rightarrow 1 \# 48,879$

Print(A7B9) → # Error due to do not mentioned prior "0x"

Print('A7B9')

Print('A7B9')
Print(0xBEER) → # Result is "A7B9" string

Print(0XBEEF) → # Result is "A7B9" string
Print(0XH4D) → # Error due to use of "R"

print(0xH4D) \Rightarrow # Error due to use of 'R'
print(0xA76IR) \rightarrow # Error due to use of 'y'

print(0xA7G9B) → # Error due to use of "y"
→ # Error due to use of "G"

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7) Find outputs

$a = 9248 \rightarrow \#$ Ref 'a' points to object 9248
<class "int">

'p' `print(a)` \rightarrow # value of object 'a' i.e. 9248

`print(type(a))` → # Type of object is <class 'int'>