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Python Questions and Answers – Bitwise – 1

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This set of Python Multiple Choice Questions & Answers (MCQs) focuses on “Bitwise – 1”.

1. What will be the output of the following Python code snippet if x=1,

D.

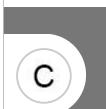
$x \ll 2$
↓
 $0001 \ll 2$
↓
 $0100 \Rightarrow 4$.

a) 8
b) 1
c) 2
d) 4

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B. $\text{bin}(29)$ \Rightarrow binary .

a) '0b10111'
 b) '0b11101'
 c) '0b11111'
 d) '0b11011'

$2 \overline{) 29}$
 $2 \overline{) 14}$
 $2 \overline{) 7}$
 $2 \overline{) 3}$

$$29 = 2^4 + 2^3 + 2^2 + 1$$

$$(16 + 8 + 4 + 1)$$

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0b -
 | | | 0 |

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3. What will be the value of x in the following Python expression, if the result of that expression is 2?

$x = 0010$
 $x \gg 2 \rightarrow 1000 \Rightarrow 8$

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A . $x \gg 2$

a) 8
 b) 4

C

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^

Q7. Which gives error?

- a). `int('1011')`
- b). `int('1011',23)`
- c). `int('1011',2) → int('1011', 2).`
- d). `int('1011')`

4. What will be the output of the following Python expression?

`int(1011)?`

- A
a) 1011
b) 11
c) 13
d) 1101

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D. 5. To find the decimal value of 1111, that is 15, we can use the function:

- a) `int(1111,10)`
- b) `int('1111',10) → base 10.`
- c) `int(1111,2)`
- d) `int('1111',2) → base 2.`

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6. What will be the output of the following Python expression if x=15 and y=12?

- x & y
- a) b1101
 - b) 0b1101
 - c) 12
 - d) 1101

AND

		1	1	1
		1	0	0
		0	1	0
		0	0	0

$15 = 1111$
 $12 = 1100$
 $1100 \Rightarrow 12$



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B. 8. Which of the following represents the bitwise XOR operator?

- a) & — AND
- b) ^ — XOR
- c) | — OR
- d) ! — NOT

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9. What is the value of the following Python expression?

DX: 十六进制前缀.

A. bin(0x8)

DX 8 → 0b1000

- a) '0bx1000'
- b) 8
- c) 1000
- d) '0b1000'

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10. What will be the output of the following Python expression?

0x35 | 0x75

DX35: $5 \times 16^0 + 3 \times 16^1 = 53 \Rightarrow 110101$

DX75: $5 \times 16^0 + 7 \times 16^1 = 117 \Rightarrow 1110101$

- a) 115
- b) 116
- c) 117
- d) 118

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$$\begin{array}{r}
 1110101 \\
 110101 \\
 \hline
 11110101 \Rightarrow 117
 \end{array}$$
(OR)

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Python Questions and Answers – Bitwise – 2

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This set of Python Multiple Choice Questions & Answers (MCQs) focuses on “Bitwise – 2”.

B. 1. It is not possible for the two's complement value to be equal to the original value in any case.

- a) True
- b) False

$1000\ 0000 \Rightarrow \text{Com: } 1000000$.

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A. 2. The one's complement of 110010101 is:

- a) 001101010
- b) 110010101
- c) 001101011
- d) 110010100

001101010

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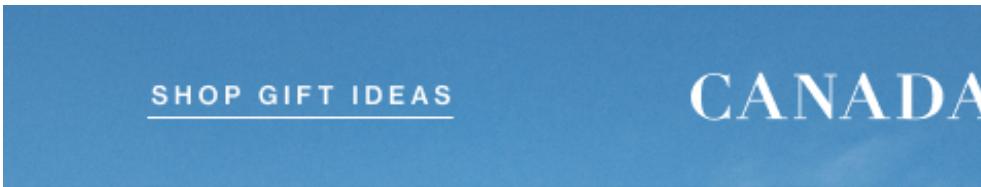
C. 3. Bitwise _____ gives 1 if either of the bits is 1 and 0 when both of the bits are 1.

- a) OR
- b) AND
- c) XOR
- d) NOT

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4. What will be the output of the following Python expression?

$$\begin{array}{r}
 4^{12} \\
 \underline{-} \\
 0100 \wedge 1100 \\
 \hline
 0100 \\
 |100 \\
 \hline
 1000
 \end{array}$$

C. a) 2
b) 4
c) 8
d) 12

4^{12}
 $0100 \wedge 1100 = 0100$
 \Rightarrow XOR: 只有不同时为 1.
 相同为 0.

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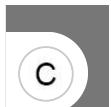
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5. Any odd number on being AND-ed with _____ always gives 1. Hint: Any even number on being AND-ed with this value always gives 0.

- C.** a) 10
b) 2
c) 1
d) 0

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Q6. What will be the value of the following Python expression?

 $\text{bin}(10-2)+\text{bin}(12^4)$

$$\begin{array}{l} 10-2=8. \quad 12^4 \Rightarrow 12 \\ | \qquad \qquad \qquad | \\ 1000 \quad + \quad 1100 \end{array}$$

- a) 0b10000
- b) 0b10001000
- c) 0b1000b1000
- d) 0b10000b1000

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$\text{bin}(10-2) = \text{bin}(8) = 0b1000.$

$\text{bin}(12^4) = \text{bin}(12) = 0b1100.$

Q7. Which of the following expressions can be used to multiply a given number 'a' by 4?

- a) $a \ll 2$
- b) $a \ll 4$
- c) $a \gg 2$
- d) $a \gg 4$

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$a = 1: \quad 0001$

$4a = 4: \quad 0100$

$a \ll 2$

$20 = 10 + 4$

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Q8. $a=10, b=20.$

$a = a \wedge b \quad (30)$

XOR operator.

$a = 1010$

$b = a \wedge b \quad (10) \Rightarrow$

$b = 10100,$

$a = a \wedge b. \quad (20)$

$0 \ 1010 \quad 1b+$

 $\text{print}(a, b)$

$$\begin{array}{r} 0 \ 1010 \\ 1 \ 0 \ 100 \\ \hline 1 \ 1 \ 110 \end{array}$$

8. What will be the output of the following Python code if $a=10$ and $b=20$?



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- b) 10 10
c) 20 10
d) 20 20

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$\rightarrow \text{Ans} + 1$

- Q. 9. What is the two's complement of -44?
B. a) 1011011
b) 11010100
c) 11101011
d) 10110011

$$-44 : 00101000$$

$$32 + 8 + 4 = 44$$

$$\begin{array}{r} 11010011 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 11010100 \\ + 1 \\ \hline \end{array}$$

10. What will be the output of the following Python expression?

$$\sim 100? \quad -(x+1)$$

- B.** a) 101
b. -101
c) 100
d) -100

$$\sim A = -A - 1$$

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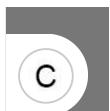
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Python Questions and Answers – Boolean

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This set of Python Multiple Choice Questions & Answers (MCQs) focuses on “Boolean”.

1. What will be the output of the following Python code snippet?

`bool('False')` \Rightarrow True
`bool()` False .

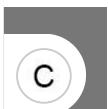
Bool } True: bool func does not amount to 0,
 } False: empty .

a)

True
True

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False
True

c)

False
False

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d)

True
False

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2. What will be the output of the following Python code snippet?

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`^['hello', 'morning'][bool('')]`

- C.
- a) error
 - b) no output
 - c) hello
 - d) morning

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↳ 'hello' should be printed if the argument passed to the Boolean function, else print "morning".

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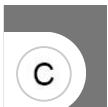
3. What will be the output of the following Python code snippet?

$\text{not}(3>4) \rightarrow \text{True}$ $3>4 \Rightarrow F, \text{ NOT}(F) \rightarrow T$
 $\text{not}(1&1) \rightarrow \text{False.}$ $1\&1 \Rightarrow T, \text{ NOT}(T) \rightarrow F.$

a)

True
True

b)



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True

d)

False
False

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4. What will be the output of the following Python code?

A. `['f', 't'][bool('spam')]`

- a) t
b) f

- c) No output
d) Error

↳ Bool func (' ') → 'f'

else → 't'.

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5. What will be the output of the following Python code?

```
l=[1, 0, 2, 0, 'hello', '', []]
list(filter(bool, l))
```

↳ return not zero

- a) Error
b) [1, 0, 2, 0, 'hello', '', []]
c) [1, 0, 2, 'hello', '', []]
d) [1, 2, 'hello']

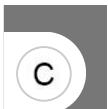
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6. What will be the output of the following Python code if the system date is 21st June, 2017 (Wednesday)?

True or {}
{} or True

{} → True

{} or True.



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b)

logic.

{}

① AND

c)

{}

{}

A	B	$A \& B$
0	0	0
0	1	0
1	0	0
1	1	1

② OR

0	0	0
0	1	1
1	0	1
1	1	1

d)

{}

{}

③ NOT

1	0
0	1

④ XOR

0	0	0
0	1	1
1	0	1
1	1	0

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7. What will be the output of the following Python code?

`class Truth:` `pass``x=Truth()``bool(x)`if the `Truth` method is not defined.

the object is considered True.

B. a) pass

b) true

c) false

d) error

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8. What will be the output of the following Python code?



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- b) hello
c) good
d) bad

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9. Which of the following Boolean expressions is not logically equivalent to the other three?

- a) $\text{not}(-6 < 0 \text{ or } -6 > 10)$ → F
 b) $-6 \geq 0 \text{ and } -6 \leq 10$ → F
 c) $\text{not}(-6 < 10 \text{ or } -6 == 10)$ → F
 D. d) $\text{not}(-6 > 10 \text{ or } -6 == 10)$ → T.

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10. What will be the output of the following Python code snippet?

$\text{not}(10 < 20) \text{ and not}(10 > 30)$ F and T → F

- a) True
 B. b) False
 c) Error
 d) No output

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