Python Questions and Answers – List Comprehension – 2

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This set of Python Multiple Choice Questions & Answers (MCQs) focuses on "List Comprehension – 2".

1. Read the information given below carefully and write a list comprehension such that the output is: ['e', 'o']

```
w="hello"
v=('a', 'e', 'i', 'o', 'u') 

a) [x for w in v if x in v]

b) [x for x in w if x in v]

c) [x for x in v if w in v]
```

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d) [x for v in w for x in w]

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

```
[ord(ch) for ch in 'abc']

(a) [97, 98, 99] returns the ASCII value of each alphabet.

(b) ['97', '98', '99']

(c) [65, 66, 67] \longrightarrow 'ABC'.

(d) Error

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```

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

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```
t=32.00
[round((x-32)*5/9) for x in t] \rightarrow
The value of t is $2.00,

a) [0]
b) 0
'Float' objects are not Hetable.
c) [0.00]
```



- 4. Write a list comprehension for producing a list of numbers between 1 and 1000 that are divisible by 3.
- a) [x in range(1, 1000) if x%3==0]
- (6) x for x in range(1000) if x%3==0]
 - $(x)^{2}$ [x%3 for x in range(1, 1000)]
 - d) [x%3=0 for x in range(1, 1000)]

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5. Write a list comprehension equivalent for the Python code shown below.

```
for i in range(1, 101):
    if int(i*0.5)==i*0.5:
        print(i)
```

- a) [i for i in range(1, 100) if int(i*0.5)==(i*0.5)]
- (b) i for i in range(1, 101) if int(i*0.5)==(i*0.5)]
- c) [i for i in range(1, 101) if int(i*0.5)=(i*0.5)]
- d) [i for i in range(1, 100) if int(i*0.5)=(i*0.5)]

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- 6. What is the list comprehension equivalent for: list(map(lambda x:x**-1, [1, 2, 3]))?
- a) [1 | x for x in [1, 2, 3]]
- b) [-1**x for x in [1, 2, 3]]
- c) [x**-1 for x in [1, 2, 3]]
- d) [x^-1 for x in range(4)]



```
Z. Write a list comprehension to produce the list: [1, 2, 4, 8, 16.....212].
   (2**x) for x in range(0, 13)]
                                                   20, 21, 2, 23 ... > 12
b) [(x**2) for x in range(1, 13)]
c) [(2**x) for x in range(1, 13)]
d) [(x**2) for x in range(0, 13)]
```

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8. What is the list comprehension equivalent for?

{x : x is a whole number less than 20, x is even} (including zero)

```
a) [x for x in range(1, 20) if (x\%2==0)]
```

- b) [x for x in range(0, 20) if (x//2==0)]
- c) [x for x in range(1, 20) if (x//2==0)]
- d) [x for x in range(0, 20) if (x%2==0)]

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9. What will be the output of the following Python list comprehension?

```
[j for i in range(2,8) for j in range(i*2, 50, i)]
                                                           Ly the square root of 50 is almost 7.

all the multiples of 2-7 are not prime in this range.
 a) A list of prime numbers up to 50
 b) A list of numbers divisible by 2, up to 50
(c) list of non prime numbers, up to 50
 d) Error
```

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

```
l=["good", "oh!", "excellent!", "#450"]
  [n for n in l if n.isalpha() or n.isdigit()]
a) ['good', 'oh', 'excellent', '450']
c) ['good', '#450']
d) ['oh!', 'excellent!', '#450']
  View Answer
```

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Python Questions and Answers – Matrix List Comprehension

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This set of Python Multiple Choice Questions & Answers (MCQs) focuses on "Matrix List Comprehension".

1. Which of the following matrices will throw an error in Python?

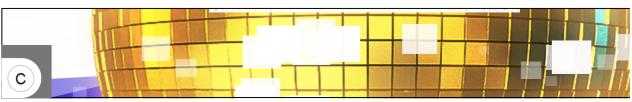
a)



c)

C = [(1, 2, 4), (5, 6, 7), (8, 9, 10)]

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d)

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

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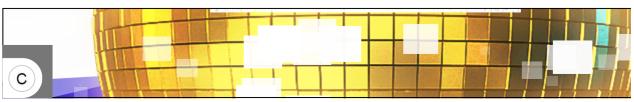
3. Which of the following Python statements will result in the output: 6?

a) A[2][3] b) A[2][1] C c) A[1][2] d) A[3][2]

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



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

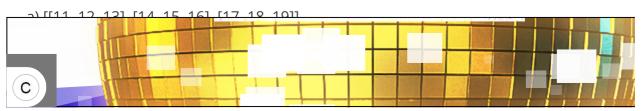
6. What will be the output of the following Python code?

- a) No output
- b) Error
- c) [[1, 2, 3], [4, 5, 6]] d) [[11, 12, 13], [14, 15, 16]]

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

[[col + 10 for col in row] for row in A]



d) [11, 12, 13, 14, 15, 16, 17, 18, 19]

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

```
120.
                        len (A)=3
  A = [[1, 2, 3],
                                            A[0][>] = 3.
       [4, 5, 6],
                         2-0
       [7, 8, 9]]
                                              1=1
  [A[i][len(A)-1-i] for i in range(len(A))]
                                             2. = rid cida
a) [1, 5, 9]
b) [4, 5, 6]
c) [3, 5, 7]
d) [2, 5, 8]
```

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

```
row = D.
                                 00[=0.
A = [[1, 2, 3],
                      E=1×8=[01 (01A. [0](018
     [4, 5, 6],
                      towzo.
                                 00 = 1
     [7, 8, 9]]
B = [[3, 3, 3],
                      BT0][] · AT0][] = 3x1 = 6.
    [4, 4, 4],
     [5, 5, 5]]
[B[row][col]*A[row][col] for row in range(3) for col in range(3)]
```

(a) (3, 6, 9, 16, 20, 24, 35, 40, 45)

b) Error

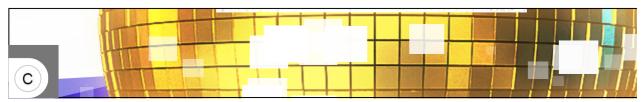
c) [0, 30, 60, 120, 160, 200, 300, 350, 400]

d) 0

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

```
r = [11, 12, 13, 14, 15, 16, 17, 18, 19]
A = [[0, 10, 20],
               [30, 40, 50],
               [60, 70, 80]]
for row in A:
        for col in row:
                 r.append(col+10)
r
```



d) [0, 10, 20, 30, 40, 50, 60, 70, 80]

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

```
A = [[1, 2, 3],
      [4, 5, 6],
      [7, 8, 9]]
B = [[3, 3, 3],
      [4, 4, 4],
      [5, 5, 5]]
[[col1 * col2 for (col1, col2) in zip(row1, row2)] for (row1, row2) in zip(A, B)]
```

a) [0, 30, 60, 120, 160, 200, 300, 350, 400]

- b) [[3, 6, 9], [16, 20, 24], [35, 40, 45]]
 - c) No output
 - d) Error

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

- a) Address of the zip object
- b) Address of the matrices A and B
- c) No output
- d) [3, 6, 9, 16, 20, 24, 35, 40, 45]

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