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## Type A : Short Answer Questions/Conceptual Questions

1. What are tokens in Python? How many types of tokens are allowed in Python? Exemplify your answer.
2. How are keywords different from identifiers?
3. What are literals in Python? How many types of literals are allowed in Python?
4. Can nongraphic characters be used in Python? How? Give examples to support your answer.
5. How are floating constants represented in Python? Give examples to support your answer.
6. How are string-literals represented and implemented in Python?
7. Which of these is not a legal numeric type in Python? (a) int (b) float (c) decimal.
8. Which argument of print( ) would you set for :  
(i) changing the default separator (space)? (ii) printing the following line in current line?
9. What are operators? What is their function? Give examples of some unary and binary operators.
10. What is an expression and a statement?
11. What all components can a Python program contain?
12. What do you understand by block/code block/suite in Python?
13. What is the role of indentation in Python?
14. What are variables? How are they important for a program?
15. What do you understand by undefined variable in Python?
16. What is Dynamic Typing feature of Python?
17. What would the following code do : `X = Y = 7`?
18. What is the error in following code : `X, Y = 7`?
19. Following variable definition is creating problem `X = 0281`, find reasons.
20. "Comments are useful and easy way to enhance readability and understandability of a program." Elaborate with examples.

## Type B : Application Based Questions

1. From the following, find out which assignment statement will produce an error. State reason(s) too.
 

(a) <code>x = 55</code>	(b) <code>y = 037</code>	(c) <code>z = 0o98</code>	(d) <code>56thnumber = 3300</code>
(e) <code>length = 450.17</code>	(f) <code>!Taylor = 'Instant'</code>	(g) <code>this variable = 87.E02</code>	
(h) <code>float = .17E - 03</code>	(i) <code>FLOAT = 0.17E - 03</code>		
2. Find out the error(s) in following code fragments :
 

(i) <code>temperature = 90</code> <code>print temprature</code>	(ii) <code>a = 30</code> <code>b = a + b</code> <code>print (a And b)</code>
(iii) <code>a, b, c = 2, 8, 9</code> <code>print (a, b, c)</code> <code>c, b, a = a, b, c</code> <code>print (a ; b ; c)</code>	(iv) <code>X = 24</code> <code>4 = X</code>
(v) <code>print ("X =" X)</code>	(vi) <code>else = 21 - 5</code>

3. What will be the output produced by following code fragment (s) ?

(i) `X = 10`  
`X = X + 10`  
`X = X - 5`  
`print (X)`  
`X, Y = X - 2, 22`  
`print (X, Y)`

(ii) `first = 2`  
`second = 3`  
`third = first * second`  
`print (first, second, third)`  
`first = first + second + third`  
`third = second * first`  
`print (first, second, third)`

(iii) `side = int(input('side'))` #side given as 7  
`area = side * side`  
`print (side, area)`

4. What is the problem with the following code fragments ?

(i) `a = 3`  
`print (a)`  
`b = 4`  
`print (b)`  
`s = a + b`  
`print (s)`

(ii) `name = "Prejith"`  
`age = 26`  
`print ("Your name & age are ", name + age)`

(iii) `a = 3`  
`s = a + 10`  
`a = "New"`  
`q = a / 10`

5. Predict the output :

(a) `x = 40`  
`y = x + 1`  
`x = 20, y + x`  
`print (x, y)`

(b) `x, y = 20, 60`  
`y, x, y = x, y - 10, x + 10`  
`print (x, y)`

(c) `a, b = 12, 13`  
`c, b = a*2, a/2`  
`print (a, b, c)`

(d) `a, b = 12, 13`  
`print (print(a + b))`

6. Predict the output

`a, b, c = 10, 20, 30`  
`p, q, r = c - 5, a + 3, b - 4`  
`print ('a, b, c:', a, b, c, end = '')`  
`print ('p, q, r:', p, q, r)`

7. Find the errors in following code fragment

(a) `y = x + 5`  
`print (x, Y)`

(b) `print (x = y = 5)`

(c) `a = input("value")`  
`b = a/2`  
`print (a, b)`

8. Find the errors in following code fragment : (The input entered is XI)

`c = int(input("Enter your class"))`  
`print ("Your class is", c)`

9. Consider the following code :

`name = input("What is your name?")`  
`print ('Hi', name, ',')`  
`print ("How are you doing?")`

was intended to print output as

Hi <name>, How are you doing ?

But it is printing the output as :

Hi <name> ,

How are you doing?

What could be the problem ? Can you suggest the solution for the same ?

10. Find the errors in following code fragment :

```
c = input("Enter your class" )
print("Last year you were in class") c - 1
```

11. What will be returned by Python as result of following statements?

(a) >>> type(0)                      (b) >>> type(int(0))                      (c) >>>.type(int('0'))  
 (d) >>> type('0')                      (e) >>> type(1.0)                      (f) >>> type(int(1.0))  
 (g) >>>type(float(0)) (h) >>> type(float(1.0)) (i) >>> type(3/2)

Match your result after executing above statements.

12. What will be the output produced by following code ?

(a) >>> str(print())+"One"                      (b) >>> str(print("hello"))+"One"  
 (c) >>> print(print("Hola"))                      (d) >>> print(print("Hola", end = ""))

Match your result after executing above statements. Can you explain why this result came?

13. Carefully look at the following code and its execution on Python shell. Why is the last assignment giving error ?

```
>>> a = 0o12
>>> print(a)
10
>>> b = 0o13
>>> c = 0o78
File "<python-input-41-27fbe2fd265f>", line 1
c = 0o78
    ^
```

**SyntaxError** : invalid syntax

14. Predict the output

```
a, b, c = 2, 3, 4
a, b, c = a*a, a*b, a*c
print(a, b, c)
```

```
num = 13
print( id(num) )
num = num + 3
print( id(num) )
num = num - 3
print( id(num) )
num = "Hello"
print( id(num) )
```

15. The id( ) can be used to get the memory address of a variable. Consider the adjacent code and tell if the id( ) functions will return the same value or not (as the value to be printed via print( ) ) ? Why ?

[There are four print( ) function statements that are printing id of variable num in the code shown on the right.

16. Consider below given two sets of codes, which are nearly identical, along with their execution in Python shell. Notice that first code-fragment after taking input gives error, while second code-fragment does not produce error. Can you tell why ?