

COMPUTER SCIENCE

1. Predict the output of the following. If Error, mention the reason.

```
t = ('ten', 20, 'thirty', 40, [50], 60, (70), (80, 90))
```

- | | | |
|-------------|-----------------|--------------|
| a. t[5:-1]) | b. t[5] | c. t[7:10] |
| d. t[-4:8] | e. t[2][2:] | f. t[3]+10.0 |
| g. t[4]+[4] | h. t[6]+(80,90) | i. t[7]*3 |

Ans:

- a. (60, 70)
- b. 60
- c. ((80,90),)
- d. ([50], 60, 70, (80, 90))
- e. 'irty'
- f. 50.0
- g. [50, 4]
- h. Error(int + tuple not possible)
- i. (80, 90, 80, 90, 80, 90)

2. Slicing is performed on the following variables : l

```
l=[2,4,6,8,10] , s= "command"
```

- | | | | |
|--------------|-------------|-------------|--------------|
| a) l[::2] | b) l[7:10] | c) l[4:0] | d) l[4:0:-1] |
| e) l[:2:-1] | f) s[0::3] | g) s[-6:-2] | h) s[-1:-7] |
| i) s[-2::-1] | j) s[:2:-2] | | |

Ans:

- a. [2, 6, 10]
- b. []
- c. []
- d. [10, 8, 6, 4]
- e. [10, 8]
- f. 'cmd'
- g. 'omma'
- h. ''
- i. 'nammoc'
- j. 'da'

3. Given x = (2,4,3) and y = [4,9,7] , what will be the output of the following Python code if always execute on the same base values of x and y ?

- | | | |
|----------------------|----------------------|--------------------|
| a) x.append(5) | b) x+=(6) | c) x+=(7,8,9) |
| d) x+= 'hello' | e)x=x+'hello' | f) y.append(5) |
| g) y+= [6] | h) y+= [7,8,9] | i) y+= 'hello' |
| j)y=y+ 'hello' | k)y.extend(5) | l) y.extend(5,4,6) |
| m) y.extend((1,7,8)) | n) y.extend([1,2,3]) | |

o) `y.append('hello')` p) `y.extend('hello')`
q) `y.append(1,7,8)` r) `y.append([1,2,3])`

Ans :

- a) Error (cannot append in a tuple)
- b) Error, cannot add tuple and int
- c) (2,4,3,7,8,9)
- d) Error ,only tuple+tuple allowed
- e) Error ,only tuple+tuple allowed
- f) [4,9,7,5]
- g) [4,9,7,6]
- h) [4,9,7,7,8,9]
- i) [4, 9, 7, 'h', 'e', 'l', 'l', 'o']
- j) Error, cannot concatenate string and list
- k) Error, 5 is not an iterable
- l) Error, an iterable is expected
- m) [4,9,7,1,7,8]
- n) [4,9,7,1,2,3]
- o) [4,9,7,'hello']
- p) [4, 9, 7, 'h', 'e', 'l', 'l', 'o']
- q) Error,append expects 1 arg
- r) [4,9,7,[1,2,3]]

4. What will be the output of the following python program?

<pre>a) a,b,c=10,20, 30 a,b,c=b+1,c+2, a+3 print(a,b,c)</pre>	<pre>b) t= 'Practice' data=t[:8][::-1] print(data)</pre>	<pre>c) x = ((10.0, 11.0, 12.0), (13.0, 14.0, 15.0)) y = x[1][2]/x[0][0] print(y)</pre>
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Ans :

- a) 21 32 13
- b) citcarP
- c) 1.5

5. Select the correct output of the code: `a = "That was a mammoth task"`

```
a = a.split('m')
b = a[0] + "." + a[1] + "." + a[2] + "." + a[3]
print (b)
```

- (a) 'That was a .a..oth task'
- (b) 'That was a . a. oth task'
- (c) 'That was a .a.oth task'
- (d) Error. Out of Index

Ans: a) 'That was a .a..oth task'

6. Predict the output of the following code:

```
a)t4 = ("sun", "mon", "tue", "wed", "thur", "fri")
    if "sun" not in t4:
        for i in range (0, 3):
            print(t4[i])
    else:
        for i in range (3, 6):
            print(t4[i])
```

Ans:

Wed
Thur
Fri

```
b)arr = [1, 2, 3, 4, 5, 6]
for i in range(1, 6) :
    arr [i - 1] = arr [i]
print(arr)
for i in range(5,0,-1) :
    arr [i ] = arr [i-1]
print(arr)
```

Ans : 2 3 4 5 6 6
2 2 3 4 5 6

```
c)Numbers = [9, 18, 27, 36 ]
for Num in Numbers :
    for N in range (1,Num%8) :
        print (N, "#", end = " ")
    print ()
```

Ans:

1 #
1 # 2 #
1 # 2 # 3 #

7. Given below are some python identifiers . Which are the valid ones

a) one_dollar b) 22_Down_Town c) Value.Mart
d) _print_

Ans : a) d)

8. Evaluate the following expressions :

a) $6 * 3 + 4 ** 2 // 5 - 8$
b) $3 <= 2 + True$ and $7 == 7.0$ or $8 != 8$

- c) $(2 + 3)**3 - 6 / 2$
 d) $(2 + 3) * 5 // 4 + (4 + 6) / 2$

Ans:

- a) 13
 b) True
 c) 122.0
 d) 11.0

9. Find the output of the following:

```
s1 = "Dore MiFa sola tido"
s2 ="sola"
print('if' in s1)
print(s1.find( s2, 4))
print(s1.capitalize())
print(s1.title())
```

Ans:

False
 10
 Dore Mifa Sola Tido

10. Suppose lst is [2,4,6,8,10,12,24], What is the list after lst.pop(3)?

- a) [2,4,6,8]
 b) [8,10,12,24],
 c) [2,4,8,10,12,24]
 d) [2,4,6,10,12,24]
 ANS : d) [2,4,6,10,12,24]

11. What is the output of the following code ?

```
print("We don\t talk any more")
print(len("We don\t talk any more"))
print("We don\t talk any more"[5:10])
```

ANS:

We don talk any more
 21
 n ta

```
for index in range(22,28,2) b)
print('Welcome'|
```

ANS:

Welcome
 Welcome
 Welcome

12. What type of objects can be used as keys in dictionaries?

Ans: immutable

1. Predict the output of. If it's an Error, mention why.

- a) `print('15' * '5')`
 b) `print(len("Red Lorry" or "Yellow Lorry"))`
 c) `print("DoubletheFun"[-3])`
 d) `print((3+7/2//2)**4**0.5)`
 e) `print('Babylon' or 3+7 and not [])`

f) `A = True and False or True and not False or not True`

g) `M = 5 * 3 // -4 + 5`

Ans:

a) Error

b) 9

c) F

d) 16.0

e) Babylon

f) True

g) 1, int