

INTERNATIONAL INDIAN SCHOOL-BURAI DAH
12TH COMPUTER SCIENCE WITH PYTHON
WORKSHEET-1 [2025-2026]
CHAPTERS-1,2

1. Evaluate the following expressions:

- | | |
|---|-----------|
| a) $8/4+4**2//5\%2-8$ | Ans -5.0 |
| b) $10 \geq 5$ and $7 < 12$ or not $13 == 3$ | Ans True |
| c) $6 * 3 + 4**2 // 5 - 8$ | Ans 13 |
| d) $10 > 5$ and $7 > 12$ or not $18 > 3$ | Ans False |
| e) $18 \% 4 ** 3 // 7 + 9$ | Ans 11 |
| f) $2 > 5$ or $5 == 5$ and not $12 \leq 9$ | Ans True |
| g) $6 * 3 + 4**2 // 5 - 8$ | Ans 13 |
| h) $10 > 5$ and $7 > 12$ or not $18 > 3$ | Ans False |
| i) $51+4-3**3//19-3$ | Ans 51 |
| j) 1718 and not $19==0$ | Ans True |
| k) $8 * 3 + 2**3 // 9 - 4$ | Ans 25 |
| l) $12 > 15$ and $8 > 12$ or not $19 > 4$ | Ans False |
| m) not($20>6$) or ($19>7$)and($20==20$) | Ans True |
| n) $17\%20$ | Ans 17 |
| o) $2 ** 3 ** 2$ | Ans 512 |
| p) $7 // 5 + 8 * 2 / 4 - 3$ | Ans 2.0 |

2. If given $A=2, B=1, C=3$, What will be the output of following expressions:

- | | |
|---|----------|
| (i) <code>print((A>B) and (B>C) or (C>A))</code> | Ans True |
| (ii) <code>print(A**B**C)</code> | Ans 2 |

3. Write the output of the following python expression:

- | | |
|--|----------|
| (a) <code>print((4>5 and (2!=1) or (4<9))</code> | Ans True |
| (b) <code>print(2 + 3*4//2 - 4)</code> | Ans 4 |
| (c) <code>print(10%3 - 10//3)</code> | Ans -2 |

4. Which function is used to find the data type of an variable

Ans `type()` function is used to find the data type of any variable, object or function.

5. Identify the valid declaration of P:

P= ['Jan', 31, 'Feb', 28]

- | | |
|---|--------------|
| a) dictionary b) string c)tuple d) list | Ans (d) list |
|---|--------------|

6. Find the output –

```
>>>A = [17, 24, 15, 30]
>>>A.insert( 2, 33)
>>>print ( A [-4])
```

Ans 24

7. Find the output of the following:

```
>>>Name = "Python Examination"
>>>print (Name [ : 8 : -1])
```

Ans noitanima

8. Given the lists `Lst=['C','O','M','P','U','T','E','R']` , write the output of:

```
print(Lst[3:6])
```

Ans PUT

9. What will be the output of following program:

```
a='hello'
b='virat'
for i in range(len(a)):
    print(a[i],b[i])
```

Ans hveilrlaot

10. Give Output:

```

colors=["violet", "indigo", "blue", "green", "yellow", "orange", "red"]
del colors[4]
colors.remove("blue")
colors.pop(3)
print(colors)

```

Ans ['violet', 'indigo', 'green', 'red']

11. If the following code is executed, what will be the output of the following code?

```

name="Computer Science with Python"
print(name[2:10])

```

Ans mputer S

12. Given the list Lst = [12, 34, 4, 56, 78, 22, 78, 89], find the output of

```
print(Lst[1:6:2])
```

Ans [34,56,22]

13. Give the output of the following code:

```

L = [ 1,2,3,4,5,6,7]
B = L
B[3:5] = 90,34
print(L)

```

Ans [1, 2, 3, 90, 34, 6, 7]

14. Write the output of the following python statements:

```

Array=[8,5,3,2,1,1]
print(Array[-1:-6:-1])

```

Ans 11235

15. Given the lists L=[1,3,6,82,5,7,11,92] , What will be the output of

```
print(L[2:5])
```

Ans [6,82,5]

16. Given the lists L=["H", "T", "W", "P", "N"], write the output of print(L[3:4])Ans ["P"]

17. Write the output of following code

```

t1 = [10, 12, 43, 39]
print(t1*3)

```

Ans [10, 12, 43, 39, 10, 12, 43, 39, 10, 12, 43, 39]

18. Given the lists L=[1,3,6,82,5,7,11,92] , write the output of print(L[1:6])

Ans [3,6,82,5,7]

19. Identify the valid declaration of L:

```
L = ['Mon', '23', 'hello', '60.5']
```

a). dictionary b). string c). tuple d). list Ans (d) list

20. If the following code is executed, what will be the output of the following code?

```

name="ComputerSciencewithPython"
print(name[3:10])

```

Ans puterSc

21. What will be the output of following code snippet:

```

msg = "Hello Friends"
msg [ : -1]

```

a) Hello b) Hello Friend c) 'sdneirF olleH' d) Friend Ans (c)

22. Identify the valid declaration of L: L = [1, 23, 'hi', 6]

(i)list (ii)dictionary (iii)array (iv)tuple

Ans (i)

23. list A list is declared as L=[(2,5,6,9,8)]

What will be the value of print(L[0])?

Ans (2,5,6,9,8)

24. What will be the output when the following code is executed

```

>>> str1 = "helloworld"
>>> str1[ : -1]

```

a). 'dlrowolleh' b). 'hello' c). 'world' d). 'helloworld' Ans (a)

25. If the following code is executed, what will be the output of the following code?

```

name="Kendriya Vidyalaya Class 12"
print(name[9:15])

```

Ans Vidyal

- 26.** Given the lists `L=[1,30,67,86,23,15,37,131,9232]` , write the output of `print(L[3:7])` Ans [86, 23, 15, 37]
- 27.** A list is declared as `Lst = [1,2,3,4,5,6,8]` What will be the value of `sum(Lst)`? Ans 29
- 28.** Identify the valid declaration of L: `L = ('Mon', '23', 'hello', '60.5')`
- 29.** a). dictionary b). string c). tuple d). list Ans (c)
- 30.** If the following code is executed, what will be the output of the following code?
`name="Computer_Science_with_Python"`
`print(name[-25:10])` Ans puter_S
- 31.** How many times is the word 'hello' printed in the following statement?
`S='python rocks'`
`for ch in s[3:8]:`
`print('hello')`
(i) 5 (ii) 6 (iii) 7 (iv) 4 Ans (i)
- 32.** Given the list `L=[1,3,6,82,5,7,11,92]`, write the output of `print(L[1:4:2])` Ans [3,82]
- 33.** Given the string `x="hello world"`, write the output of `print(x[:2],x[:-2])`
Ans he hello wor
- 34.** Identify the correct option to print the value 80 from the list
`L=[10,20,40,80,20,5,55]`
(i) `L[80]` (ii) `L[4]` (iii) `L[L]` (iv) `L[3]` Ans (iv)
- 35.** `L[3]` if `a=[5,4,3,2,2,1]`, evaluate the following expression:
`print( a[a[a[2]+1]])` Ans 2
- 36.** Give the output of the following:
`x="Marvellous"`
`print( x[2:7], "and" , x[-4:-1] )` Ans rvell and lou
- 37.** What is the output produced by the following code?
`alst=[1,2,3,4,5,6,7,8,9]`
`print(alst[: :3])` Ans [1, 4, 7]
