

# Python Operators and Expressions: Interview Questions.

## Section – A

1. What is an operator in Python?
2. Explain the difference between unary and binary operators with examples.
3. What is the order of precedence in Python operators?
4. Discuss the role of arithmetic operators in Python.
5. Explain the concept of modulus and its use in Python.
6. Differentiate between the == and is operators in Python.
7. How do you use the and, or, and not logical operators in Python?
8. Discuss the purpose of the bitwise operators (&, |, ^, <<, >>) in Python.
9. Explain the use of the membership operators (in and not in) in Python.
10. What is the purpose of the identity operators (is and is not) in Python?
11. Discuss the role of the ternary conditional operator (x if condition else y) in Python.
12. How are comparison operators (<, >, <=, >=, !=, ==) used in Python?
13. Explain the use of assignment operators (=, +=, -=, \*=, /=) in Python.
14. What is the purpose of the in keyword when used with strings and lists?
15. Discuss the use of the slice operator (:) in Python.
16. How can you use the \*\* operator for exponentiation in Python?
17. Explain the concept of the // operator in Python.
18. Discuss the use of the += and \*= operators with examples.

19. How do you use the not operator to negate a boolean value in Python?
20. Explain the purpose of the () operator in Python and give examples of its use.

## **Section- B**

1. What are the basic arithmetic operators in Python?
2. What is the difference between integer division (//) and regular division (/)?
3. What happens when you divide a number by zero in Python?
4. How do you calculate the remainder of a division in Python?
5. What is the order of operations (precedence) in Python expressions?
6. What are the basic comparison operators in Python?
7. How do you compare strings using comparison operators?
8. What is the difference between single (=) and double equal signs (==) in Python?
9. Can you compare different data types using comparison operators?
10. How do you check if a variable is None in Python?
11. What is an expression in Python?
12. What are logical operators in Python?
13. How do you prioritize logical operations in Python expressions?
14. What is short-circuiting in Python's logical operators?
15. How can short-circuiting be useful?
16. How can you control the order of operations in a complex expression?
17. What happens if you accidentally omit parentheses in an expression?

18. How can you improve the readability of complex expressions?
19. What are augmented assignment operators in Python?
20. What are some best practices for using operators and expressions in Python?

K. Prakash Senapati