

JavaScript Practice Sheet # 1

Task 1: Identify which of the following variable names are legal and which are illegal:

- a) myVariable
- b) 123variable
- c) _special
- d) first name
- e) 7eleven
- f) \$price
- g) your-variable

Task 2: Assignment Operators

- Create a variable named total and initialize it to 10.
- Use the += operator to add 5 to total.
- Use the -= operator to subtract 3 from total.
- Use the *= operator to multiply total by 2.
- Use console.log() to display the final value of total.

Task 3: Prompt and Variables (Math):

Ask the user for two numbers using prompt and store them in variables. Then, calculate and display the sum of those numbers.

Task 4: String Concatenation:

Create variables for a book title, author, and year of publication. Use string concatenation to create a sentence that introduces the book.

For example, "The book 'Title' by Author was published in Year."

Task 5: Checking Even or Odd

- Create a program that prompts the user to enter a number.
- Use an if-else statement to check if the number is even or odd.
- Display a message indicating whether the number is even or odd.

Task 6: Grade Calculation

Create a program that prompts the user to enter their exam score (out of 100). Use if-else statements to determine the letter grade based on the following scale:

- 90-100: A
- 80-89: B
- 70-79: C
- 60-69: D
- Below 60: F

- Display the letter grade.

Task 7: Maximum of Three Numbers

Create a program that prompts the user to enter three numbers.

Use if-else statements to find and display the maximum of the three numbers.

Task 8: Odd or Even Sum

Write a program that calculates the sum of all even numbers from 1 to 100 using a loop and the post-increment operator. Display the sum.

Task 9: Output ?

a = ? , b = ? , c = ? , result = ?

1) var a=5; b=3; c=7; result = a++ - ++c + b + ++c - b++ ;

2) var a=1; b=2; c=0; result = ++a - --a + ++c + c - a++ + --b ;

3) var a=2; b=4; c=6; result = a++ - --b + c-- + b++ - ++c;

4) var a=10; b=5; c=8; result = ++a + --b - c++ - ++c + b--;

5) var a= 3; b=2; c=1; result = b-- - --a + ++c - a++ + ++b - a;

6) var a=1; b=5; c=3; result = ++c + a-- - b++ + c-- - --a;

7) var a=7; b=0 c=1; result = ++c - a-- + --b + b++ - --c + c;

8) var a=3; b=4; c=9; result = --a + ++b + c-- - b++ + ++c - --c - --b;

9) var a=6; b=1; c=3; result = c++ - b + a-- - --c + b ;

10) var a=10; b=5; c=8; result = a + --b - c - ++c + b-- + a++ ;

Task 10: Output ?

For each of the following expressions, what will be the output? Write 'true', 'false', 'undefined', or the actual value

1. `console.log(undefined && false);`
2. `console.log(true && false);`
3. `console.log(true && undefined);`
4. `console.log(undefined && undefined);`
5. `console.log('undefined' || 'true');`
6. `console.log(null || 'true');`
7. `console.log(null || undefined);`
8. `console.log(null && true || false);`
9. `console.log(null && true || false && true);`
10. `console.log(null && true || true && true);`
11. `console.log((null && true) || (true && 1));`

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