04/04/2025, 12:00 ProCodrr's Platform





Answersheet

Name: Arashad Ahamad No. of questions attempted: 7 Submitted at: 4 Apr, 2025 11:59 AM

Assignment: Ternary Operator Explained Total no. of questions: 7 Total marks: 35

Result: Not reviewed yet

Sl. No.	Question	Actions
1	Here is the solution to the question in previous chapters just like we promised. Confusing right? Basically, we are checking if a number is largest in each of the statements. So in this case we already checked that variable a is not largest so it is either b or c and that's the logic behind this. const a = 5 const b = 8 const c = 6 if (a > b && a > c) { console.log(a) } else if (b > c) { console.log(b) } else {	Marks

ProCodrr's Platform



04/04/2025, 12:00



	console.log(c)	
	⇒ Now, use this code and try to do the same thing with the ternary operator. const a = 5 const b = 8 const c = 6 const largestNum = a >= b && a >= c ? a : b >= a && b >= c ? b : c console.log(largestNum)	
2	Here is the solution to the question above. 5 marks $const\ a=5$ $const\ b=8$ $const\ c=6$ $console.log(a>b\&\&a>c?a:b>c?b:c)$ \Rightarrow Now, on the line of the console what are the expressions and statements?	Marks
3	What is the fundamental difference between ternary operator and if else statements? The ternary operator is a shorthand version of if-else. Both perform the same function—checking conditions—but: 1. The ternary operator allows writing conditions in a single line, making the code concise and clean. 2. The if-else statement is longer but improves readability, especially for complex logic.	Marks





4	Can you explain why expressions can appear within statements but statements cannot appear within expressions in JavaScript? In JavaScript, expressions are those that return a value, whereas statements are those that perform an action. • Expressions can be written inside statements because they produce a value. Example: let result = 10 + 5; // "10 + 5" is an expression that returns 15. console.log(result); // Here, the expression is inside a statement. • Statements cannot be written inside expressions because statements do not return a value; they only perform operations. Example (Invalid): let x = if (true) { console.log("Hello"); }; // Error, because if statement does not return a value. Conclusion: • Expressions always return a value, so they can appear inside statements. • Statements only perform actions, so they cannot be placed inside expressions.	Marks
5	Can you give examples of different types of expressions in JavaScript, such as arithmetic expressions and logical expressions? • 10 > 15 • 10 <= 20 • 10 === 10 • 'hello' + 'world' • true && false • 10 + 5	Marks
6	What is a statement in JavaScript, and can you provide some examples? A statement performs an action in JavaScript. let a = 9; // Variable declaration (action: assigns 9 to 'a') console.log(a); // Prints 'a' (action: outputs 9 to console) if (a > 5) { console.log("Big number"); } // Conditional statement (action: checks condition and prints if true)	Marks
7	What is an expression in JavaScript, and how does it differ from a statement? 5 marks	Marks

04/04/2025, 12:00 ProCodrr's Platform





An expression is a piece of code that returns a value. Key Differences Between Expression and Statement: • Expression: Returns a value (e.g., 10 + 5 → 15). • Statement: Performs an action (e.g., let a = 10; → Assigns value). • Expression: Can be inside a statement. • Statement: Cannot be inside an expression.