

Trainer guide
Examples and exercises
JS-4 – Ternary operator

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This exercise gives learners practice on taking if-else statements and writing the same logic in a more concise way using the ternary operator.

index.js

- In this exercise, we'll practice writing concise conditional statements with the ternary operator.

Demo

- Look at this first function, `getParity()`
 - It takes in one parameter, which is a number.
 - If the number is even, then the function returns the string "even".
 - Otherwise, the function returns the string "odd".
- To write a statement using the ternary operator, we need to ask three questions.
 - The first question is: "What is the condition?"
 - In this case, the condition is: `number % 2 === 0`
 - The second question is: "What value do we want if the condition is true?"
 - In this case, that would be the string "even".
 - The third question is: "What value do we want if the condition is false?"
 - In this case, that would be the string "odd".
- Now that we've answered all three questions, we can write our ternary statement.
 - **The first part** of a ternary statement is always the condition. We've identified the condition to be `number % 2 === 0`.
 - *Write `number % 2 === 0` as the first line of the function body.*
 - **After the condition**, we write the ternary operator itself. In JavaScript the ternary operator is the question mark.
 - *The first line of the function body should now read:*
`number % 2 === 0 ?`
 - **After the question mark**, we write the value that we want if the condition is true. We know that if the condition is true, we want the string "even".
 - *The first line of the function body should now read:*
`number % 2 === 0 ? 'even'`

- **Next**, we write a colon. The colon essentially means “else” or “otherwise”.
 - *The first line of the function body should now read:*
`number % 2 === 0 ? 'even' :`
- **Finally**, we write the value that we want if the condition is false. If the condition is false, we want the string “odd”.
 - *The first line of the function body should now read:*
`number % 2 === 0 ? 'even' : 'odd'`
- We now have a ternary expression that will either evaluate to “even” or “odd”.
- The last thing we need to do is simply return this value from the function.
 - *The function body should now read:*
`return number % 2 === 0 ? 'even' : 'odd'`

Exercise

- Now that we've seen how to write a statement with the ternary operator, let's get a little more practice.
- Your task is to rewrite the remaining functions in index.js using the ternary operator.
- The body of each function should only be one line long.

Solve the exercise live before moving on.

[Link to solution](#)