



Assignment Code: FSD-AG-005

JavaScript - Arrays, Functions & More | Assignment

Instructions: Carefully read each question. Use Google Docs, Microsoft Word, or a similar tool to create a document where you type out each question along with its answer. Save the document as a PDF, and then upload it to the LMS. Please do not zip or archive the files before uploading them. Each question carries 20 marks.

Total Marks: 220

Question 1 : Create an object named student with the following properties:

- name: "Rahul"
- age: 21
- courses: an array containing "Math", "Physics", and "Chemistry"

Then, perform the following operations:

1. Add a new property grade with the value "A".
2. Update the age to 22.
3. Delete the courses property.

Answer:



Question 2: Write a function `checkEligibility` that takes an age as a parameter and returns:

- "Eligible" if age is 18 or above
- "Not Eligible" if age is below 18

Use an `if-else` statement.

Answer:

Question 3: Write a function `getDayName` that takes a number (1-7) and returns the corresponding day of the week. Use a `switch` statement.

Answer:

Question 4: Rewrite the `checkEligibility` function from Question 2 using the ternary operator.

Answer:



Question 5: Given an array `numbers = [1, 2, 3, 4, 5]`, perform the following:

1. Use a `for` loop to print each number.
2. Use a `while` loop to print each number.
3. Use a `for-in` loop to print each index.
4. Use a `for-of` loop to print each number.

Answer:

Question 6: Explain what functions are in JavaScript and provide an example of a function that adds two numbers.

Answer:

Question 7: Convert the add function from Question 6 into an arrow function.

Answer:



Question 8: Write a function greet that takes a name and a callback function. The greet function should call the callback with the name.

Answer:

Question 9: Given the array:

```
const fruits = ["apple", "banana", "cherry"];
```

1. What is the length of the array?
2. Add "date" to the end of the array using the length property.

Answer:



Question 10: Given the string `text = "Hello World!"`, perform the following:

1. Trim the whitespace.
2. Convert to uppercase.
3. Check if it includes "World".

Answer:

Question 11: Given the array `numbers = [1, 2, 3, 4, 5]`, perform the following:

1. Add 6 to the end.
2. Remove the first element.
3. Find the index of 4.
4. Check if all numbers are greater than 0.

Answer: