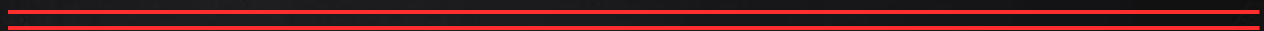




OBJECT



semicolon





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

name: "John Doe",

age: 22,

courses: ["Math", "Physics", and "Computer Science"],

address: {

 city: "New York",

 zip: 10001,

}

Now, write code to print:

A) The student's name.

B) The second course.

C) The zip code from the address.

semicolon



2) Using the student object from the previous question:

- Update the age to 23.
- Add a new property GPA with a value of 3.8.
- Add a method `getDetails()` that returns "John Doe is 23 years old and has a GPA of 3.8".

Call `getDetails()` and print the result.

semicolon



3) Create an object `bankAccount` with the following properties and methods:

- `owner`: "Alice"
- `balance`: 500
- `deposit(amount)`: Adds the amount to the balance.
- `withdraw(amount)`: Subtracts the amount from the balance, but prevents withdrawal if it makes the balance negative.

Perform the following:

- Deposit 200 into the account.
- Withdraw 1000 and check if the withdrawal was successful.
- Print the final balance.

semicolon



4) Given the following object:

```
const inventory = {  
  apple: 10,  
  banana: 5,  
  orange: 8,  
  mango: 12  
};
```

Write a loop that:

- Prints each fruit name and its quantity.
- Prints the total number of fruits.

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5) Create an object company with:

- name: "TechCorp"
- location: "San Francisco"
- employees: An array of objects where each object represents an employee with (Input not less than four employees):
- id: Unique number
- name: Employee's name
- department: "Engineering", "HR", or "Marketing" (choose one for each employee)

Write code to:

- Print the **name of the second employee**.
- Use **destructuring** to extract the company's name and location.
- Loop through the employees and print each employee's **name and department**.

semicolon



6) You are given an array of product objects.

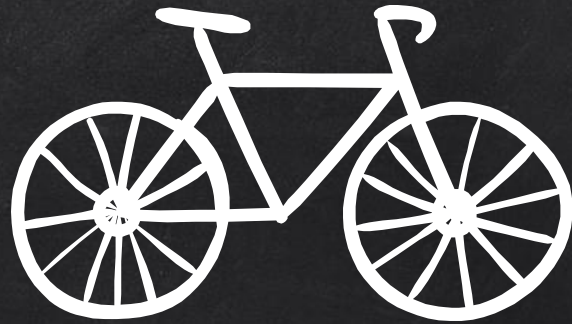
```
const products = [  
  { id: 1, name: "Laptop", price: 1200 },  
  { id: 2, name: "Phone", price: 800 },  
  { id: 3, name: "Tablet", price: 500 },  
  { id: 4, name: "Desktop", price: 700 }  
];
```

Write a function `findExpensiveProducts(products, threshold)` that:

- Takes the products array and a threshold price.
- Returns an array of products that have a price greater than threshold.

Test it with `threshold = 700`.

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THANKS!

Hope that was fun?



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