Array of object practice Questions:

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1. Print only the names of all students.

```
const students = [
  { name: "Aman", age: 20 },
  { name: "Sara", age: 22 },
  { name: "Ravi", age: 19 },
  { name: "Nisha", age: 21 },
  { name: "Kunal", age: 23 },
  { name: "Meera", age: 20 },
  { name: "Sahil", age: 18 },
  { name: "Tina", age: 22 },
  { name: "Arjun", age: 19 },
  { name: "Kavya", age: 21 }
];
```

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2. Calculate the total price of all products.

```
const products = [
  { title: "Laptop", price: 45000 },
  { title: "Mouse", price: 800 },
  { title: "Keyboard", price: 1200 },
  { title: "Monitor", price: 9000 },
```

```
  { title: "USB Cable", price: 300 },
  { title: "Headphones", price: 1500 },
  { title: "Charger", price: 700 },
  { title: "Webcam", price: 2500 },
  { title: "Mic", price: 2800 },
  { title: "Speaker", price: 3200 }
];
```

---

3. Print names of employees whose salary is above 50,000.

```
const employees = [
  { name: "John", salary: 55000 },
  { name: "Maya", salary: 48000 },
  { name: "Karan", salary: 65000 },
  { name: "Reena", salary: 70000 },
  { name: "Dev", salary: 52000 },
  { name: "Hina", salary: 45000 },
  { name: "Vishal", salary: 75000 },
  { name: "Rita", salary: 35000 },
  { name: "Amit", salary: 90000 },
  { name: "Sunil", salary: 60000 }
];
```

---

4. Count how many books belong to category "fiction".

```
const books = [
  { title: "Book A", category: "fiction" },
  { title: "Book B", category: "science" },
  { title: "Book C", category: "fiction" },
  { title: "Book D", category: "history" },
  { title: "Book E", category: "fiction" },
  { title: "Book F", category: "math" },
  { title: "Book G", category: "fiction" },
  { title: "Book H", category: "science" },
  { title: "Book I", category: "fiction" },
  { title: "Book J", category: "novel" }
];
```

---

5. Create a new array of emails from users.

```
const users = [
  { name: "Ali", email: "ali@gmail.com" },
  { name: "Rita", email: "rita@gmail.com" },
  { name: "Dev", email: "dev@yahoo.com" },
  { name: "Meera", email: "meera@gmail.com" },
  { name: "Raj", email: "raj@outlook.com" },
```

```
  { name: "Tina", email: "tina@gmail.com" },
  { name: "Karan", email: "karan@gmail.com" },
  { name: "Simran", email: "simran@yahoo.com" },
  { name: "Pooja", email: "pooja@gmail.com" },
  { name: "Vikas", email: "vikas@gmail.com" }
];
```

---

6. Find the order with the highest amount.

```
const orders = [
  { id: 1, amount: 1500 },
  { id: 2, amount: 700 },
  { id: 3, amount: 2300 },
  { id: 4, amount: 5000 },
  { id: 5, amount: 3400 },
  { id: 6, amount: 280 },
  { id: 7, amount: 1200 },
  { id: 8, amount: 15000 },
  { id: 9, amount: 2500 },
  { id: 10, amount: 900 }
];
```

---

7. Print car brands manufactured after 2015.

```
const cars = [
  { brand: "BMW", year: 2018 },
  { brand: "Toyota", year: 2012 },
  { brand: "Audi", year: 2020 },
  { brand: "Honda", year: 2016 },
  { brand: "Ford", year: 2014 },
  { brand: "Kia", year: 2019 },
  { brand: "Tesla", year: 2021 },
  { brand: "Hyundai", year: 2017 },
  { brand: "Jeep", year: 2013 },
  { brand: "Volvo", year: 2022 }
];
```

---

8. Create a new array of movies with rating > 8.

```
const movies = [
  { name: "Inception", rating: 9 },
  { name: "Hero", rating: 6 },
  { name: "Interstellar", rating: 8.5 },
  { name: "Dune", rating: 8.2 },
  { name: "Avatar", rating: 7 },
  { name: "Joker", rating: 8.4 },
  { name: "Gravity", rating: 7.8 },
```

```
  { name: "Tenet", rating: 7.5 },
  { name: "Soul", rating: 8.3 },
  { name: "Wall-E", rating: 8.4 }
];
```

---

9. Calculate the average score of players.

```
const players = [
  { name: "Rohit", score: 50 },
  { name: "Virat", score: 80 },
  { name: "Dhoni", score: 70 },
  { name: "Hardik", score: 60 },
  { name: "Gill", score: 55 },
  { name: "Surya", score: 75 },
  { name: "Iyer", score: 65 },
  { name: "Pant", score: 58 },
  { name: "Rahul", score: 72 },
  { name: "Bumrah", score: 40 }
];
```

---

10. Count how many tasks are completed.

```
const tasks = [
```

```
  { task: "Cleaning", completed: true },
  { task: "Shopping", completed: false },
  { task: "Coding", completed: true },
  { task: "Reading", completed: true },
  { task: "Gym", completed: false },
  { task: "Cooking", completed: true },
  { task: "Study", completed: false },
  { task: "Laundry", completed: true },
  { task: "Meditation", completed: false },
  { task: "Running", completed: true }
];
```

---

11. Print the population of the city with the smallest population.

```
const cities = [
  { name: "Delhi", population: 19000000 },
  { name: "Pune", population: 3100000 },
  { name: "Jaipur", population: 4000000 },
  { name: "Indore", population: 2200000 },
  { name: "Nagpur", population: 2400000 },
  { name: "Surat", population: 6000000 },
  { name: "Kanpur", population: 3000000 },
  { name: "Lucknow", population: 3500000 },
```

```
  { name: "Patna", population: 2500000 },
  { name: "Bhopal", population: 2000000 }
];
```

---

12. Calculate the total inventory value (quantity × price).

```
const items = [
  { item: "Pen", quantity: 20, price: 10 },
  { item: "Notebook", quantity: 5, price: 50 },
  { item: "Bag", quantity: 2, price: 300 },
  { item: "Bottle", quantity: 10, price: 40 },
  { item: "Pencil", quantity: 30, price: 5 },
  { item: "Marker", quantity: 15, price: 15 },
  { item: "Eraser", quantity: 25, price: 3 },
  { item: "Sharpener", quantity: 18, price: 6 },
  { item: "Calculator", quantity: 4, price: 200 },
  { item: "File", quantity: 12, price: 20 }
];
```

---

13. Print students aged between 18 and 25.

```
const studentsData = [
  { name: "Arun", age: 17 },
```

```
  { name: "Priya", age: 21 },
  { name: "Neha", age: 25 },
  { name: "Suresh", age: 19 },
  { name: "Tara", age: 23 },
  { name: "Kiran", age: 26 },
  { name: "Nitin", age: 22 },
  { name: "Monika", age: 24 },
  { name: "Vivek", age: 18 },
  { name: "Harsh", age: 27 }
];
```

---

14. Create a new array of only "credit" transactions.

```
const transactions = [
  { type: "credit", amount: 2000 },
  { type: "debit", amount: 500 },
  { type: "credit", amount: 1500 },
  { type: "credit", amount: 4500 },
  { type: "debit", amount: 800 },
  { type: "credit", amount: 700 },
  { type: "credit", amount: 3200 },
  { type: "debit", amount: 400 },
  { type: "credit", amount: 2500 },
  { type: "debit", amount: 600 }
```

```
];
```

---

15. Find the course with the longest name.

```
const courses = [
  { title: "Math" },
  { title: "Computer Science" },
  { title: "Web Development" },
  { title: "Electrical Engineering" },
  { title: "Data Structures" },
  { title: "Artificial Intelligence" },
  { title: "Machine Learning" },
  { title: "Cloud Computing" },
  { title: "Cyber Security" },
  { title: "Human Computer Interaction" }
];
```
