

Javascript Task in Advance array methods & Loops

Task 1: Write a function that takes an object and returns a new object with keys and values swapped. Use for...in loop to iterate over the object properties.

```
Input: { a: 1, b: 2, c: 3 }
Output: { '1': 'a', '2': 'b', '3': 'c' }
```

Task 2: Write a function to find the index of an object in an array by a specific property value using findIndex.

```
Input: const data = [
  { name: 'Alice', age: 25 },
  { name: 'Bob', age: 30 },
  { name: 'Charlie', age: 35 }
];
Example: Alice = 0, Bob = 1, Charlie = 2
```

Task 3: Write a function that checks if all objects in an array have a certain property using "every" method.

```
Input: const data = [
{ name: 'Alice', age: 25 },
{ name: 'Bob', age: 30 },
{ name: 'Charlie', age: 35 }
];
```

Output: 'age' = true, 'gender' = false

Task 4: Write a function that deeply flattens a nested array using recursion and flat. Input: [1, [2, [3, [4, 5]]]];

```
Output: [1, 2, 3, 4, 5]
```

Task 5: Write a function that maps over a nested array and transforms each sub-array using "flatMap".

```
Input : const nested = [[1, 2], [3, 4], [5, 6]];
Output : [1, 2, 3, 4, 5, 6]
```

Task 6: Write a function to find duplicate elements in an array using filter and indexOf.

```
Input: data = [1, 2, 3, 1, 4, 2, 5]
Output : [1, 2]
```

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