

JavaScript Array & String Methods - Complete Solutions

SECTION 1 - Array Methods

```
Task 1 - forEach()
let subjects = ["Maths", "Science", "English", "History"];
let result = "";
subjects.forEach((sub, index) => {
  result += `Subject ${index + 1}: ${sub}\n`;
});
console.log(result);

Task 2 - map()
let prices = [100, 200, 300, 400];
let newPrices = prices.map(price => price * 1.10);

Task 3 - filter()
let passed = students.filter(student => student.marks > 50);

Task 4 - find()
let firstPass = students.find(student => student.marks > 50);

Task 5 - reduce()
let total = cart.reduce((sum, product) => sum + product.price * 1.05, 0);

Task 6 - some()
let hasEven = numbers.some(num => num % 2 === 0);

Task 7 - every()
let allAdults = ages.every(age => age > 18);

Task 8 - sort()
let ascending = [...salaries].sort((a, b) => a - b);
let descending = [...salaries].sort((a, b) => b - a);

Task 9 - Conversion
arr.toString();
arr.join("-");
```

SECTION 2 - String Methods

```
charAt(), charCodeAt()
slice()
toUpperCase(), toLowerCase()
trim()
includes()
split()
indexOf(), lastIndexOf()
replace()
startsWith(), endsWith()
repeat()

FINAL TEAM CHALLENGE - Employee Report System
map(), filter(), find(), reduce(), sort()
```