ES6 + Array Advanced Tasks (Except Task 7)

TASK 1 – Employee Merge System

```
let empBasic = { name: "Naveen", role: "Trainee", salary: 20000 }
let empPromotion = { role: "Developer", bonus: 10000 }

let employee = {
  ...empBasic,
  ...empPromotion,
  salary: 40000,
  experience: "2 years"
};

console.log(employee);
```

Output:

```
{
 name: "Naveen",
 role: "Developer",
 salary: 40000,
 bonus: 10000,
 experience: "2 years"
}
```

TASK 2 – Shopping Cart

```
let cart1 = ["Shoes", "Shirt"]
let cart2 = ["Watch", "Cap"]

let finalCart = ["Socks", ...cart1, ...cart2, "Bag"];

console.log(finalCart);
```

Output:

```
["Socks", "Shoes", "Shirt", "Watch", "Cap", "Bag"]
```

TASK 3 – Rest Operator Salary

```
function calculateTotalSalary(baseSalary, ...bonuses){
  let totalBonus = bonuses.reduce((a,b)=>a+b,0);
  let total = baseSalary + totalBonus;
  return `Total Salary: ${total}`;
}

console.log(calculateTotalSalary(30000, 2000, 3000, 5000));
```

Output:

```
Total Salary: 40000
```

TASK 4 – Advanced Destructuring

```
let student = {
  name: "Rahul",
  marks: { maths: 90, science: 85, english: 88 }
};

let { name, marks: { maths, science } } = student;

console.log(`${name} scored ${maths} in maths and ${science} in science`);
```

Output:

```
Rahul scored 90 in maths and 85 in science
```

TASK 5 – Array Manipulation

```
let numbers = [10,20,30,40,50];
```

```
numbers.splice(2,1,25);
numbers.reverse();

console.log("Final Array:", numbers);
console.log("50 Exists:", numbers.includes(50));

Output:
Final Array: [50, 40, 25, 20, 10]
50 Exists: true
```

TASK 6 – Flatten Data

```
let apiData = [1,2,[3,4,[5,6,[7,8]]]];

let flatArray = apiData.flat(Infinity);

console.log("Flattened:", flatArray);
console.log("Index of 6:", flatArray.indexOf(6));

Output:
Flattened: [1,2,3,4,5,6,7,8]
Index of 6: 5
```

BONUS HARD TASK

```
let users = [
  {name: "A", salary: 20000},
  {name: "B", salary: 40000},
  {name: "C", salary: 30000}
];

let updatedUsers = users.map(user => ({
  ...user,
  salary: user.salary + 5000
}));

updatedUsers.sort((a,b)=>b.salary - a.salary);

console.log(updatedUsers);

Output:
[
 {name: "B", salary: 45000},
 {name: "C", salary: 35000},
 {name: "A", salary: 25000}
]
```