Task-3-Practice-1.js

```javascript
function findLongestString(arr) {
    return arr.reduce((longest, current) => {
        return current.length > longest.length ? current : longest;
    }, '');
}

console.log(findLongestString(['apple', 'banana', 'cherry', 'date']));
```

```
[Running] node "c:\Users\AKASH ROSHAN\OneDrive\Desktop\INTERNTRIBE\SPRINT V -Tasks\Task-3-Practice-1.js"
banana

[Done] exited with code=0 in 0.139 seconds
```

Task-3-Practice-2.js

```javascript
function flattenArray(nestedArr) {
    return nestedArr.reduce((flat, current) => flat.concat(current), []);
}

console.log(flattenArray([[1, 2, 3], [4, 5], [6, 7, 8, 9]]));
```

```
[Running] node "c:\Users\AKASH ROSHAN\OneDrive\Desktop\INTERNTRIBE\SPRINT V -Tasks\Task-3-Practice-2.js"
[
  1, 2, 3, 4, 5,
  6, 7, 8, 9
]

[Done] exited with code=0 in 0.141 seconds
```

Task-3-Practice-3.js

```javascript
function countOccurrences(words) {
    return words.reduce((acc, word) => {
        acc[word] = (acc[word] || 0) + 1;
        return acc;
    }, {});
}


console.log(countOccurrences(['apple', 'banana', 'apple', 'orange', 'banana', 'apple']));
```

Output:

```
]

[Done] exited with code=0 in 0.141 seconds

[Running] node "c:\Users\AKASH ROSHAN\OneDrive\Desktop\INTERNTRIBE\SPRINT V -Tasks\Task-3-Practice-3.js"
{ apple: 3, banana: 2, orange: 1 }

[Done] exited with code=0 in 0.156 seconds
```

Task-3-Practice-4.js

```javascript
function groupBy(arr, property) {
    return arr.reduce((grouped, obj) => {
        const key = obj[property];
        if (!grouped[key]) grouped[key] = [];
        grouped[key].push(obj);
        return grouped;
    }, {});
}

const people = [
    { name: 'Alice', age: 21 },
    { name: 'Bob', age: 25 },
    { name: 'Charlie', age: 21 },
    { name: 'David', age: 25 },
    { name: 'Eve', age: 22 }
];
console.log(groupBy(people, 'age'));
```

Output:

```
[Running] node "c:\Users\AKASH ROSHAN\OneDrive\Desktop\INTERNTRIBE\SPRINT V -Tasks\Task-3-Practice-4.js"
{
  '21': [ { name: 'Alice', age: 21 }, { name: 'Charlie', age: 21 } ],
  '22': [ { name: 'Eve', age: 22 } ],
  '25': [ { name: 'Bob', age: 25 }, { name: 'David', age: 25 } ]
}

[Done] exited with code=0 in 0.126 seconds
```

Task-3-Practice-5.js

```javascript
function calculateTotal(cart) {
    return cart.reduce((total, item) => total + item.price, 0);
}


const cart = [
    { item: 'apple', price: 1.5 },
    { item: 'banana', price: 2.0 },
    { item: 'orange', price: 1.25 }
];
console.log(calculateTotal(cart));
```

OUTPUT

```
J
[Done] exited with code=0 in 0.126 seconds

[Running] node "c:\Users\AKASH ROSHAN\OneDrive\Desktop\INTERNTRIBE\SPRINT V -Tasks\Task-3-Practice-5.js"
4.75

[Done] exited with code=0 in 0.152 seconds
```

Task-3-Practice-6.js

```javascript
function findFirstEven(numbers) {
    return numbers.find(num => num % 2 === 0);
}


console.log(findFirstEven([1, 3, 7, 10, 2]));
```

OUTPUT

```
4.75
[Done] exited with code=0 in 0.152 seconds

[Running] node "c:\Users\AKASH ROSHAN\OneDrive\Desktop\INTERNTRIBE\SPRINT V -Tasks\tempCodeRunnerFile.js"
10

[Done] exited with code=0 in 0.136 seconds
```

```javascript
function findStudentByName(students, name) {
    return students.find(student => student.name === name);
}

const students = [
    { name: 'Alice', age: 21 },
    { name: 'Bob', age: 25 },
    { name: 'Charlie', age: 23 }
];
console.log(findStudentByName(students, 'Bob'));

```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
[Done] exited with code=0 in 0.136 seconds

[Running] node "c:\Users\AKASH ROSHAN\OneDrive\Desktop\INTERNTRIBE\SPRINT V -Tasks\tempCodeRunnerFile.js"
{ name: 'Bob', age: 25 }

[Done] exited with code=0 in 0.132 seconds
```

```javascript
function findProductById(products, id) {
    return products.find(product => product.id === id);
}

const products = [
    { id: 101, name: 'Laptop' },
    { id: 102, name: 'Phone' },
    { id: 103, name: 'Tablet' }
];
console.log(findProductById(products, 102));

```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
  name:  'Bob', age: 25 }

[Done] exited with code=0 in 0.132 seconds

[Running] node "c:\Users\AKASH ROSHAN\OneDrive\Desktop\INTERNTRIBE\SPRINT V -Tasks\tempCodeRunnerFile.js"
{ id: 102, name: 'Phone' }

[Done] exited with code=0 in 0.133 seconds
```

Task-3-Practice-9.js > ⊗ findOverdueTask

```javascript
function findOverdueTask(tasks) {
    const today = new Date().toISOString().split('T')[0];
    return tasks.find(task => task.dueDate < today);
}
const tasks = [
    { taskName: 'Task 1', dueDate: '2023-06-01' },
    { taskName: 'Task 2', dueDate: '2024-05-01' },
    { taskName: 'Task 3', dueDate: '2024-01-01' }
];
console.log(findOverdueTask(tasks));
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
{ id: 102, name: 'Phone' }

[Done] exited with code=0 in 0.133 seconds

[Running] node "c:\Users\AKASH ROSHAN\OneDrive\Desktop\INTERNTRIBE\SPRINT V -Tasks\Task-3-Practice-9.js"
{ taskName: 'Task 1', dueDate: '2023-06-01' }

[Done] exited with code=0 in 0.148 seconds
```