

JavaScript Challenges:

Task 1 : Longest String

Enter items separated by comma:

Longest string: vegetables

Task 2 : Flatten Array

Enter nested array:

Flattened array: [1,2,2,3]

Task 3: Count Occurrences

Enter words separated by comma:

Occurrences: {"lion":2,"deer":3,"tiger":1}

Task 4: Group by Property

The objects are :

```
[{ "name": "Alice", "age": 21 },  
{ "name": "Bob", "age": 25 },  
{ "name": "Charlie", "age": 21 },  
{ "name": "David", "age": 25 },  
{ "name": "Eve", "age": 22 }]
```

Enter the property

Grouped objects:

```
{  
  "Alice": [  
    {  
      "name": "Alice",  
      "age": 21  
    }  
  ],  
  "Bob": [  
    {  
      "name": "Bob",  
      "age": 25  
    }  
  ],  
  "Charlie": [  
    {  
      "name": "Charlie",  
      "age": 21  
    }  
  ],  
  "David": [  
    {  
      "name": "David",  
      "age": 25  
    }  
  ],  
  "Eve": [  
    {  
      "name": "Eve",  
      "age": 22  
    }  
  ]  
}
```

Task 5: Total Price of Items in Cart

The items in the cart are:

```
[
  { "item": "apple", "price": 1.5 },
  { "item": "banana", "price": 2.0 },
  { "item": "orange", "price": 1.25 },
  { "item": "pie", "price": 13.00 }
]
```

Calculate Total

Total Price: \$17.75

Task 6: Find First Even Number

Enter the array:

[1,5,4,3,2,5]

Find

First even number in the array: 4

Task 7: Find Student by Name

The details of students are :

```
[{ "name": "Alice", "age": 21 },
{ "name": "Bob", "age": 25 },
{ "name": "Charlie", "age": 23 },
{ "name": "Eve", "age": 24 },
{ "name": "Frank", "age": 26 },
{ "name": "Grace", "age": 22 },
{ "name": "Heidi", "age": 23 },
]
```

Enter the name to search

Eve

Search

Student details: {"name":"Eve","age":22}

Task 8: Find Product by ID

The details of product are :

```
[
  { "id": 101, "name": "Laptop" },
  { "id": 102, "name": "Phone" },
  { "id": 103, "name": "Tablet" }
]
```

Enter the product id

Product details: {"id":103,"name":"Tablet"}

Task 9: Find Overdue Task

Enter task list:

```
[
  { "taskName": "Task 1", "dueDate": "2023-06-01" },
  { "taskName": "Task 2", "dueDate": "2024-05-01" },
  { "taskName": "Task 3", "dueDate": "2024-01-01" }
]
```

Overdue Task: {"taskName":"Task 1","dueDate":"2023-06-01"}