# JavaScript Class\_Practice07 | Objects – Arrays – Loops

## TASK-1

You are given a JS Array below:

* Count how many users are older than 30 -> 2
* Count how many users live in Chicago -> 2
* Count how many users live in IL -> 3
* Count how many users’ emails has Gmail domain -> 2
* Find and store all the users name younger than 35 -> [ 'Tech', 'Jane', 'Alex' ]
* Find average of ages of all users -> 28

const users = [

{

firstName: 'Tech',

lastName: 'Global',

email: 'tech.global@techglobal.com',

age: 3,

address: {

street\_line\_1: '2800 S River Rd',

street\_line\_2: 'Suite 310',

city: 'Des Plaines',

state: 'IL',

zip: '60018'

}

},

{

firstName: 'John',

lastName: 'Doe',

email: 'johndoe@gmail.com',

age: 47,

address: {

street\_line\_1: '123 Abc St',

street\_line\_2: '',

city: 'Chicago',

state: 'IL',

zip: '12345'

}

},

{

firstName: 'Jane',

lastName: 'Doe',

email: 'janedoe@gmail.com',

age: 30,

address: {

street\_line\_1: '123 Abc St',

street\_line\_2: '',

city: 'Chicago',

state: 'IL',

zip: '12345'

}

},

{

firstName: 'Alex',

lastName: 'Smith',

email: 'alexsmith@outlook.com',

age: 32,

address: {

street\_line\_1: '456 Xyz St',

street\_line\_2: '',

city: 'Miami',

state: 'Florida',

zip: '67890'

}

}

];

## TASK-2

You are given a JS Array below:

* Find the most expensive product -> MacBook Pro 16-inch
* Find the least expensive product -> AirPods Pro
* Find the product with the biggest quantity -> AirPods Pro
* Find the product with the smallest quantity -> MacBook Pro 16-inch
* Find all the product names -> [ 'iPhone 14 Pro', 'MacBook Pro 16-inch', 'iPad Air', 'Apple Watch Series 7', 'AirPods Pro' ]

const appleStore = [

{

productName: "iPhone 14 Pro",

quantity: 50,

price: 1099.99,

},

{

productName: "MacBook Pro 16-inch",

quantity: 30,

price: 2399.99,

},

{

productName: "iPad Air",

quantity: 75,

price: 599.99,

},

{

productName: "Apple Watch Series 7",

quantity: 100,

price: 399.99,

},

{

productName: "AirPods Pro",

quantity: 200,

price: 249.99,

},

];

## TASK-3

You are given a JS Array below:

* Find the cheapest book in the bookstore -> To Kill a Mockingbird
* Find the most expensive book in the bookstore -> Harry Potter and the Sorcerer's Stone
* Find all Classic books -> [ 'The Great Gatsby', 'To Kill a Mockingbird' ]

const bookstore = [

{

title: "The Great Gatsby",

author: "F. Scott Fitzgerald",

genre: "Classic",

price: 9.99

},

{

title: "To Kill a Mockingbird",

author: "Harper Lee",

genre: "Classic",

price: 7.99

},

{

title: "The Hitchhiker's Guide to the Galaxy",

author: "Douglas Adams",

genre: "Science Fiction",

price: 12.49

},

{

title: "Harry Potter and the Sorcerer's Stone",

author: "J.K. Rowling",

genre: "Fantasy",

price: 14.99

},

{

title: "The Da Vinci Code",

author: "Dan Brown",

genre: "Mystery",

price: 10.99

}

];

## TASK-4

You are given a JS Array below:

* Calculate the total price of products in the cart -> 2444
* Find the brands of all the products in the cart -> [ 'Dell', 'Apple', 'Sony' ]
* Find all the items in the cart with their quantity -> [ 'Laptop, 1', 'Smartphone 2', 'Headphones, 3' ]

const shoppingCart = {

userId: 12345,

items: [

{

productId: 1,

productName: 'Laptop',

price: 999.00,

quantity: 1,

specifications: {

brand: 'Dell',

screen: '15.6 inches',

processor: 'Intel Core i7'

}

},

{

productId: 2,

productName: 'Smartphone',

price: 499.00,

quantity: 2,

specifications: {

brand: 'Apple',

model: 'iPhone 12',

color: 'Space Gray'

}

},

{

productId: 3,

productName: 'Headphones',

price: 149.00,

quantity: 3,

specifications: {

brand: 'Sony',

type: 'Over-ear',

wireless: true

}

}

],

shippingAddress: {

street: '123 Main Street',

city: 'Anytown',

zipCode: '12345'

},

orderDate: '2023-08-29'

};