Create separate html document for the following exercises:

Use the array given below and perform the following operations using array methods:

Note: Display the result using document.write()

find()

1. Find the element with rating >= 3
2. Find the element with type 'vegetable'
3. Find the element with price < 15
4. Find the element with title which contains the word 'Lemon'
5. Find the element with height = 450 and width = 450

filter()

1. Filter the elements with rating < 2
2. Filter the elements with type 'dairy'
3. Filter the elements with price >20
4. Filter the elements with title which contains the word 'with'
5. Filter the elements with description which contains the word 'with'
6. Filter the elements with height = 600 and width = 400

map()

1. Add the property 'isAvailable: true' to all the elements

reduce()

1. Calculate the averageRatings of all the element
2. Calculate the averageHeight of all the element
3. Calculate the averageWidth of all the element
4. Calculate the averagePrice of all the element

Mix of array methods:

1. Filter the elements of type: 'dairy' and calculate averageRatings
2. Filter the elements of type: 'vegetable' and calculate averagePrice
3. Filter the elements of type: 'fruit' and add new property 'isAvailable: true'
4. Filter the elements of type: 'dairy' and 'vegetable' and add new property 'isAvailable: true' to the filtered elements under type: 'dairy' and add new property 'isAvailable: false' to the filtered elements under type: 'vegetable'

```javascript
let superMarket = [{
    "title": "Brown eggs",
    "type": "dairy",
    "description": "Raw organic brown eggs in a basket",
    "filename": "0.jpg",
    "height": 600,
    "width": 400,
    "price": 28.1,
    "rating": 4
}, {
    "title": "Sweet fresh strawberry",
    "type": "fruit",
    "description": "Sweet fresh stawberry on the wooden table",
    "filename": "1.jpg",
    "height": 450,
    "width": 299,
    "price": 29.45,
    "rating": 4
}, {
    "title": "Asparagus",
    "type": "vegetable",
    "description": "Asparagus with ham on the wooden table",
    "filename": "2.jpg",
    "height": 450,
    "width": 299,
    "price": 18.95,
    "rating": 3
}, {
    "title": "Green smoothie",
    "type": "dairy",
    "description": "Glass of green smoothie with quail egg's yolk, served with cocktail
tube, green apple and baby spinach leaves over tin surface.",
    "filename": "3.jpg",
    "height": 600,
    "width": 399,
    "price": 17.68,
    "rating": 4
}, {
    "title": "Raw legums",
    "type": "vegetable",
    "description": "Raw legums on the wooden table",
    "filename": "4.jpg",
    "height": 450,
    "width": 299,
    "price": 17.11,
    "rating": 2
}, {
    "title": "Baking cake",
    "type": "dairy",
    "description": "Baking cake in rural kitchen - dough recipe ingredients (eggs, flour
, sugar) on vintage wooden table from above.",
    "filename": "5.jpg",
    "height": 450,
    "width": 675,
```

```json
      "price": 11.14,
      "rating": 4
    }, {
      "title": "Pesto with basil",
      "type": "vegetable",
      "description": "Italian traditional pesto with basil, chesse and oil",
      "filename": "6.jpg",
      "height": 450,
      "width": 299,
      "price": 18.19,
      "rating": 2
    }, {
      "title": "Hazelnut in black ceramic bowl",
      "type": "vegetable",
      "description": "Hazelnut in black ceramic bowl on old wooden background. forest wealth. rustic style. selective focus",
      "filename": "7.jpg",
      "height": 450,
      "width": 301,
      "price": 27.35,
      "rating": 0
    }, {
      "title": "Fresh strawberry",
      "type": "fruit",
      "description": "Sweet fresh stawberry on the wooden table",
      "filename": "8.jpg",
      "height": 600,
      "width": 399,
      "price": 28.59,
      "rating": 4
    }, {
      "title": "Lemon and salt",
      "type": "fruit",
      "description": "Rosemary, lemon and salt on the table",
      "filename": "9.jpg",
      "height": 450,
      "width": 299,
      "price": 15.79,
      "rating": 5
    }, {
      "title": "Homemade bread",
      "type": "bakery",
      "description": "Homemade bread",
      "filename": "10.jpg",
      "height": 450,
      "width": 301,
      "price": 17.48,
      "rating": 3
    }, {
      "title": "Legums",
      "type": "vegetable",
      "description": "Cooked legums on the wooden table",
      "filename": "11.jpg",
      "height": 600,
```

```
      "width": 399,
      "price": 14.77,
      "rating": 0
    }, {
      "title": "Fresh tomato",
      "type": "vegetable",
      "description": "Fresh tomato juice with basil",
      "filename": "12.jpg",
      "height": 600,
      "width": 903,
      "price": 16.3,
      "rating": 2
    }, {
      "title": "Healthy breakfast",
      "type": "fruit",
      "description": "Healthy breakfast set. rice cereal or porridge with berries and hone
y over rustic wood background",
      "filename": "13.jpg",
      "height": 450,
      "width": 350,
      "price": 13.02,
      "rating": 2
    }, {
      "title": "Green beans",
      "type": "vegetable",
      "description": "Raw organic green beans ready to eat",
      "filename": "14.jpg",
      "height": 450,
      "width": 300,
      "price": 28.79,
      "rating": 1
    }, {
      "title": "Baked stuffed portabello mushrooms",
      "type": "bakery",
      "description": "Homemade baked stuffed portabello mushrooms with spinach and cheese"
,
      "filename": "15.jpg",
      "height": 600,
      "width": 400,
      "price": 20.31,
      "rating": 1
    }, {
      "title": "Strawberry jelly",
      "type": "fruit",
      "description": "Homemade organic strawberry jelly in a jar",
      "filename": "16.jpg",
      "height": 400,
      "width": 600,
      "price": 14.18,
      "rating": 1
    }, {
      "title": "Pears juice",
      "type": "fruit",
      "description": "Fresh pears juice on the wooden table",
```

```
      "filename": "17.jpg",
      "height": 600,
      "width": 398,
      "price": 19.49,
      "rating": 4
    }, {
      "title": "Fresh pears",
      "type": "fruit",
      "description": "Sweet fresh pears on the wooden table",
      "filename": "18.jpg",
      "height": 600,
      "width": 398,
      "price": 15.12,
      "rating": 5
    }, {
      "title": "Caprese salad",
      "type": "vegetable",
      "description": "Homemade healthy caprese salad with tomato mozzarella and basil",
      "filename": "19.jpg",
      "height": 400,
      "width": 600,
      "price": 16.76,
      "rating": 5
    }, {
      "title": "Oranges",
      "type": "fruit",
      "description": "Orange popsicle ice cream bars made from fresh oranges.  a refreshin
g summer treat.",
      "filename": "20.jpg",
      "height": 450,
      "width": 274,
      "price": 21.48,
      "rating": 4
    }, {
      "title": "Vegan food",
      "type": "vegetable",
      "description": "Concept of vegan food",
      "filename": "21.jpg",
      "height": 450,
      "width": 299,
      "price": 29.66,
      "rating": 4
    }, {
      "title": "Breakfast with muesli",
      "type": "dairy",
      "description": "Concept of healthy breakfast with muesli",
      "filename": "22.jpg",
      "height": 450,
      "width": 299,
      "price": 22.7,
      "rating": 2
    }, {
      "title": "Honey",
      "type": "bakery",
```

```
      "description": "Honey and honey cell on the table",
      "filename": "23.jpg",
      "height": 450,
      "width": 299,
      "price": 17.01,
      "rating": 2
    }, {
      "title": "Breakfast with cottage",
      "type": "fruit",
      "description": "Healthy breakfast with cottage cheese and strawberry",
      "filename": "24.jpg",
      "height": 600,
      "width": 398,
      "price": 14.05,
      "rating": 1
    }, {
      "title": "Strawberry smoothie",
      "type": "fruit",
      "description": "Glass of red strawberry smoothie with chia seeds, served with retro
cocktail tube, fresh mint and strawberries over dark background",
      "filename": "25.jpg",
      "height": 600,
      "width": 400,
      "price": 28.86,
      "rating": 2
    }, {
      "title": "Strawberry and mint",
      "type": "fruit",
      "description": "Homemade muesli with strawberry and mint",
      "filename": "26.jpg",
      "height": 450,
      "width": 299,
      "price": 26.21,
      "rating": 4
    }, {
      "title": "Ricotta",
      "type": "dairy",
      "description": "Ricotta with berry and mint",
      "filename": "27.jpg",
      "height": 600,
      "width": 398,
      "price": 27.81,
      "rating": 5
    }, {
      "title": "Cuban sandwich",
      "type": "bakery",
      "description": "Homemade traditional cuban sandwiches with ham pork and cheese",
      "filename": "28.jpg",
      "height": 450,
      "width": 300,
      "price": 18.5,
      "rating": 4
    }, {
      "title": "Granola",
```

```json
      "type": "dairy",
      "description": "Glass jar with homemade granola and yogurt with nuts, raspberries an
d blackberries on wooden cutting board over white textile in day light",
      "filename": "29.jpg",
      "height": 450,
      "width": 300,
      "price": 29.97,
      "rating": 3
    }, {
      "title": "Smoothie with chia seeds",
      "type": "fruit",
      "description": "Glass of red strawberry smoothie with chia seeds, served with retro
cocktail tube, fresh mint and strawberries over wooden table",
      "filename": "30.jpg",
      "height": 600,
      "width": 900,
      "price": 25.26,
      "rating": 5
    }, {
      "title": "Yogurt",
      "type": "dairy",
      "description": "Homemade yogurt with raspberry and mint",
      "filename": "31.jpg",
      "height": 450,
      "width": 299,
      "price": 27.61,
      "rating": 4
    }, {
      "title": "Sandwich with salad",
      "type": "vegetable",
      "description": "Vegan sandwich with salad, tomato and radish",
      "filename": "32.jpg",
      "height": 600,
      "width": 398,
      "price": 22.48,
      "rating": 5
    }, {
      "title": "Cherry",
      "type": "fruit",
      "description": "Cherry with sugar on old table",
      "filename": "33.jpg",
      "height": 600,
      "width": 400,
      "price": 14.35,
      "rating": 5
    }, {
      "title": "Raw asparagus",
      "type": "vegetable",
      "description": "Raw fresh asparagus salad with cheese and dressing",
      "filename": "34.jpg",
      "height": 600,
      "width": 400,
      "price": 22.97,
      "rating": 4
```

```json
    }, {
      "title": "Corn",
      "type": "vegetable",
      "description": "Grilled corn on the cob with salt and butter",
      "filename": "35.jpg",
      "height": 450,
      "width": 300,
      "price": 13.55,
      "rating": 2
    }, {
      "title": "Vegan",
      "type": "vegan",
      "description": "Concept of healthy vegan eating",
      "filename": "36.jpg",
      "height": 600,
      "width": 398,
      "price": 28.96,
      "rating": 5
    }, {
      "title": "Fresh blueberries",
      "type": "fruit",
      "description": "Healthy breakfast. berry crumble with fresh blueberries, raspberries
, strawberries, almond, walnuts, pecans, yogurt, and mint in ceramic plates over white woo
den surface, top view",
      "filename": "37.jpg",
      "height": 450,
      "width": 321,
      "price": 21.01,
      "rating": 4
    }, {
      "title": "Smashed avocado",
      "type": "fruit",
      "description": "Vegan sandwiches with smashed avocado, tomatoes and radish. top view
",
      "filename": "38.jpg",
      "height": 450,
      "width": 450,
      "price": 25.88,
      "rating": 0
    }, {
      "title": "Italian ciabatta",
      "type": "bakery",
      "description": "Italian ciabatta bread cut in slices on wooden chopping board with h
erbs, garlic and olives over dark grunge backdrop, top view",
      "filename": "39.jpg",
      "height": 450,
      "width": 565,
      "price": 15.18,
      "rating": 1
    }, {
      "title": "Rustic breakfast",
      "type": "dairy",
      "description": "Rustic healthy breakfast set. cooked buckwheat groats with milk and
honey on dark grunge backdrop. top view, copy space",
```

```json
      "filename": "40.jpg",
      "height": 450,
      "width": 307,
      "price": 21.32,
      "rating": 0
    }, {
      "title": "Sliced lemons",
      "type": "fruit",
      "description": "Heap of whole and sliced lemons and limes with mint in vintage metal
 grid box over old wooden table with turquoise wooden background. dark rustic style.",
      "filename": "41.jpg",
      "height": 600,
      "width": 900,
      "price": 27.14,
      "rating": 2
    }, {
      "title": "Plums",
      "type": "fruit",
      "description": "Yellow and red sweet plums",
      "filename": "42.jpg",
      "height": 450,
      "width": 299,
      "price": 19.18,
      "rating": 1
    }, {
      "title": "French fries",
      "type": "bakery",
      "description": "Homemade oven baked french fries with ketchup",
      "filename": "43.jpg",
      "height": 600,
      "width": 400,
      "price": 18.32,
      "rating": 3
    }, {
      "title": "Strawberries",
      "type": "fruit",
      "description": "Healthy breakfast set. rice cereal or porridge with fresh strawberry
, apricots, almond and honey over white rustic wood backdrop, top view, \u0000",
      "filename": "44.jpg",
      "height": 450,
      "width": 352,
      "price": 15.13,
      "rating": 3
    }, {
      "title": "Ground beef meat burger",
      "type": "meat",
      "description": "Raw ground beef meat burger steak cutlets with seasoning on vintage
wooden boards, black background",
      "filename": "45.jpg",
      "height": 450,
      "width": 675,
      "price": 11.73,
      "rating": 5
    }, {
```

```
      "title": "Tomatoes",
      "type": "fruit",
      "description": "Organic tomatoes made with love",
      "filename": "46.jpg",
      "height": 450,
      "width": 675,
      "price": 26.03,
      "rating": 4
    }, {
      "title": "Basil",
      "type": "vegetable",
      "description": "Concept of vegan food with basil",
      "filename": "47.jpg",
      "height": 450,
      "width": 678,
      "price": 15.19,
      "rating": 4
    }, {
      "title": "Fruits bouquet",
      "type": "fruit",
      "description": "Abstract citrus fruits bouquet on blue background",
      "filename": "48.jpg",
      "height": 600,
      "width": 401,
      "price": 18.18,
      "rating": 1
    }, {
      "title": "Peaches on branch",
      "type": "fruit",
      "description": "Peaches on branch with leaves and glasses with peach juice and limon
ade with ice cubes in aluminum tray over old metal table. dark rustic style. top view.",
      "filename": "49.jpg",
      "height": 600,
      "width": 400,
      "price": 25.62,
      "rating": 3
    }];
```