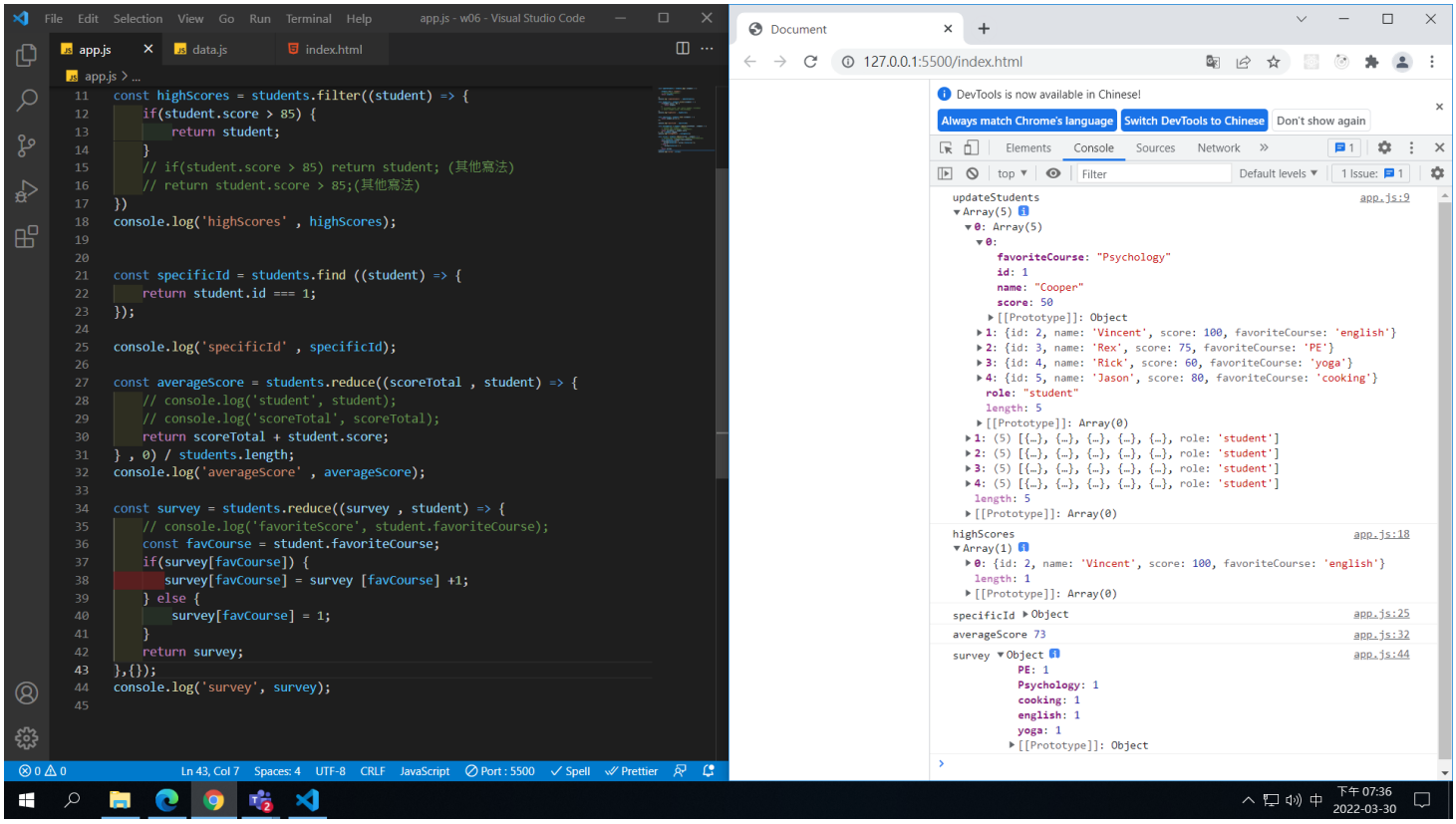
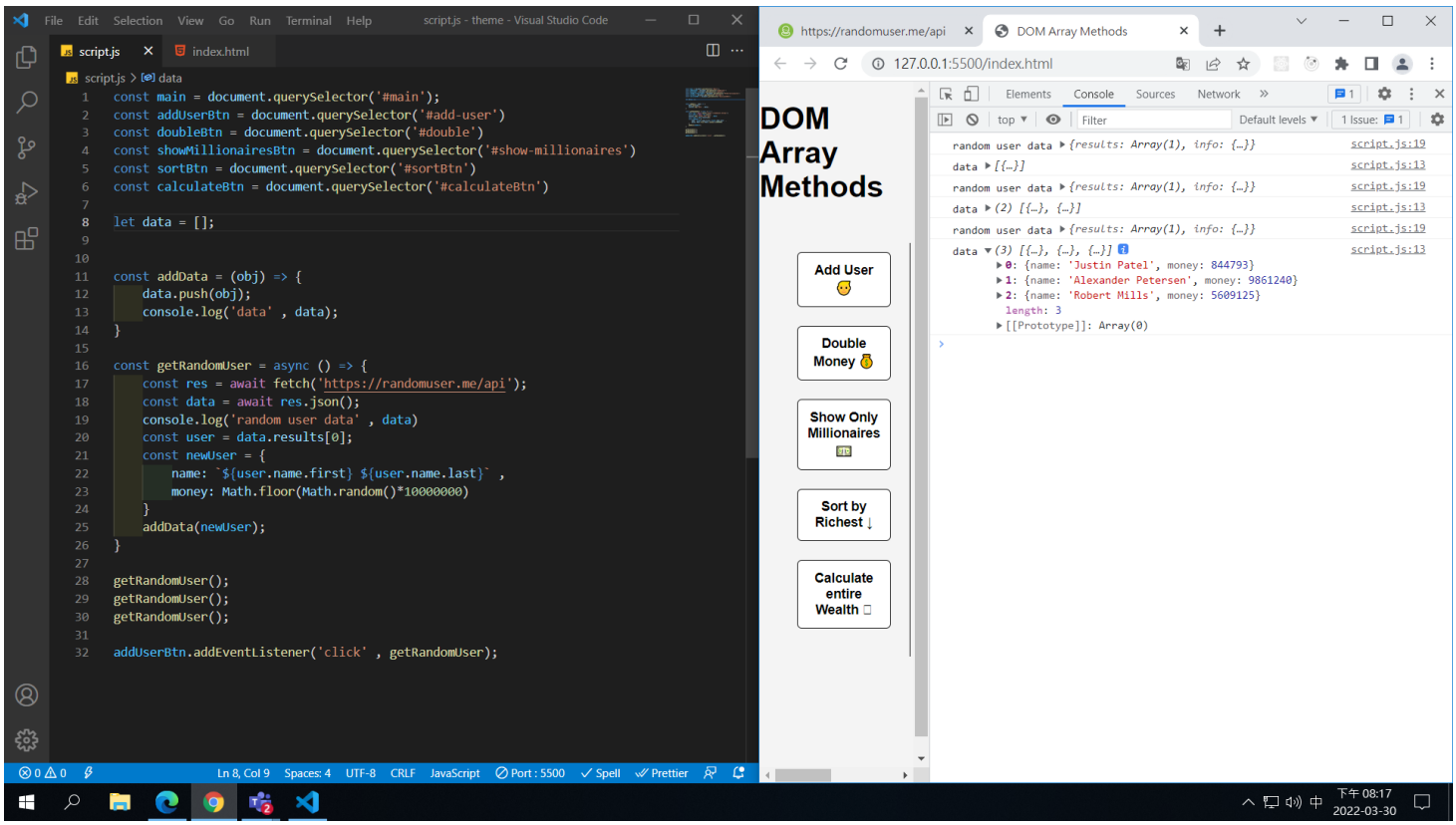
P1: students array demo using map, filter, find, reduce



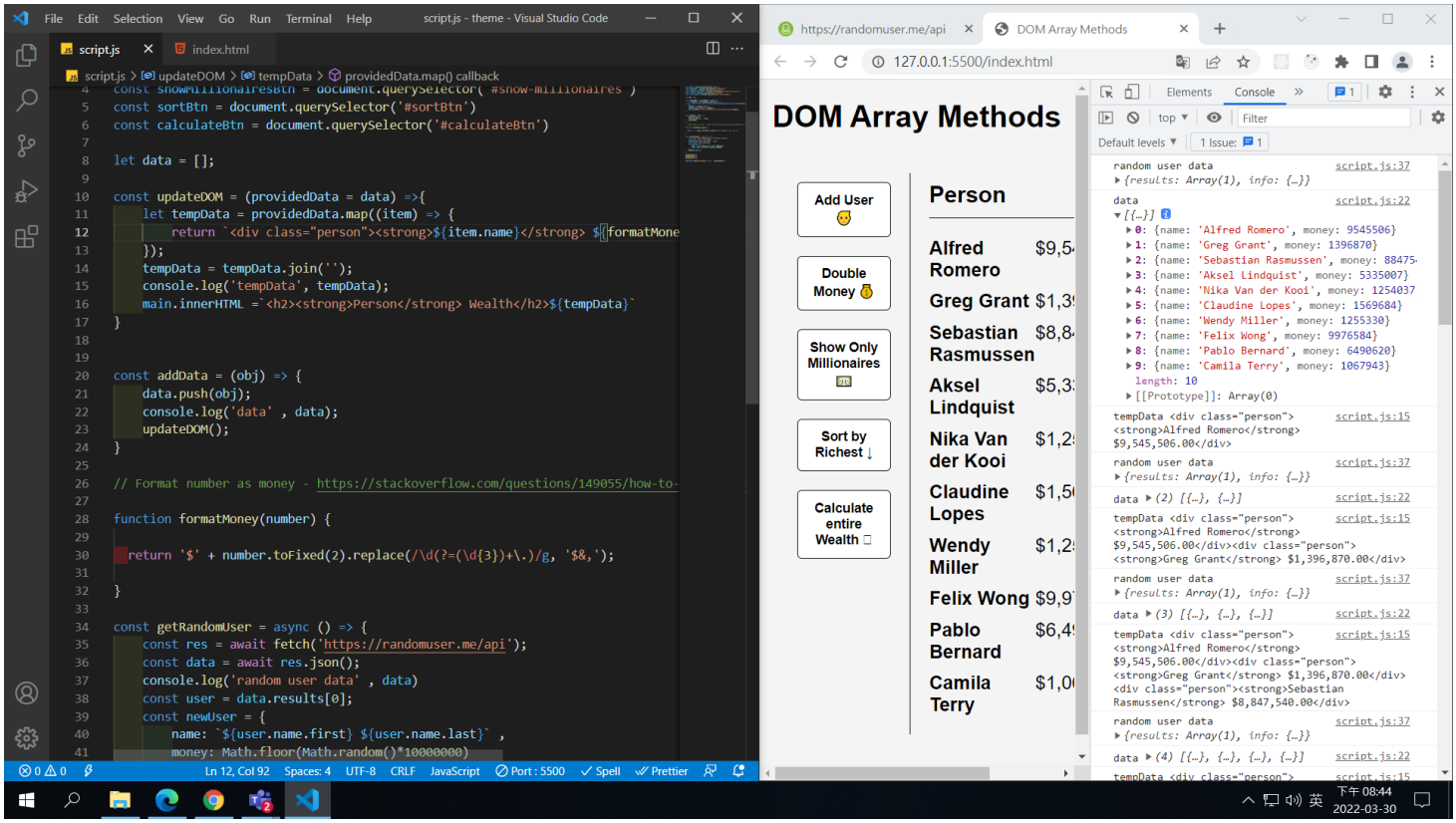
```
const highScores = students.filter((student) => {
    if(student.score > 85) {
        return student;
    }
    // if(student.score > 85) return student; (其他寫法)
    // return student.score > 85;(其他寫法)
})
console.log('highScores' , highScores);


const specificId = students.find ((student) => {
    return student.id === 1;
});

console.log('specificId' , specificId);

const averageScore = students.reduce((scoreTotal , student) => {
    // console.log('student', student);
    // console.log('scoreTotal', scoreTotal);
    return scoreTotal + student.score;
} , 0) / students.length;
console.log('averageScore' , averageScore);

const survey = students.reduce((survey , student) => {
    // console.log('favoriteScore', student.favoriteCourse);
    const favCourse = student.favoriteCourse;
    if(survey[favCourse]) {
        survey[favCourse] = survey [favCourse] +1;
    } else {
        survey[favCourse] = 1;
    }
    return survey;
},{});
console.log('survey', survey);
```

P2: getRandomUser three times

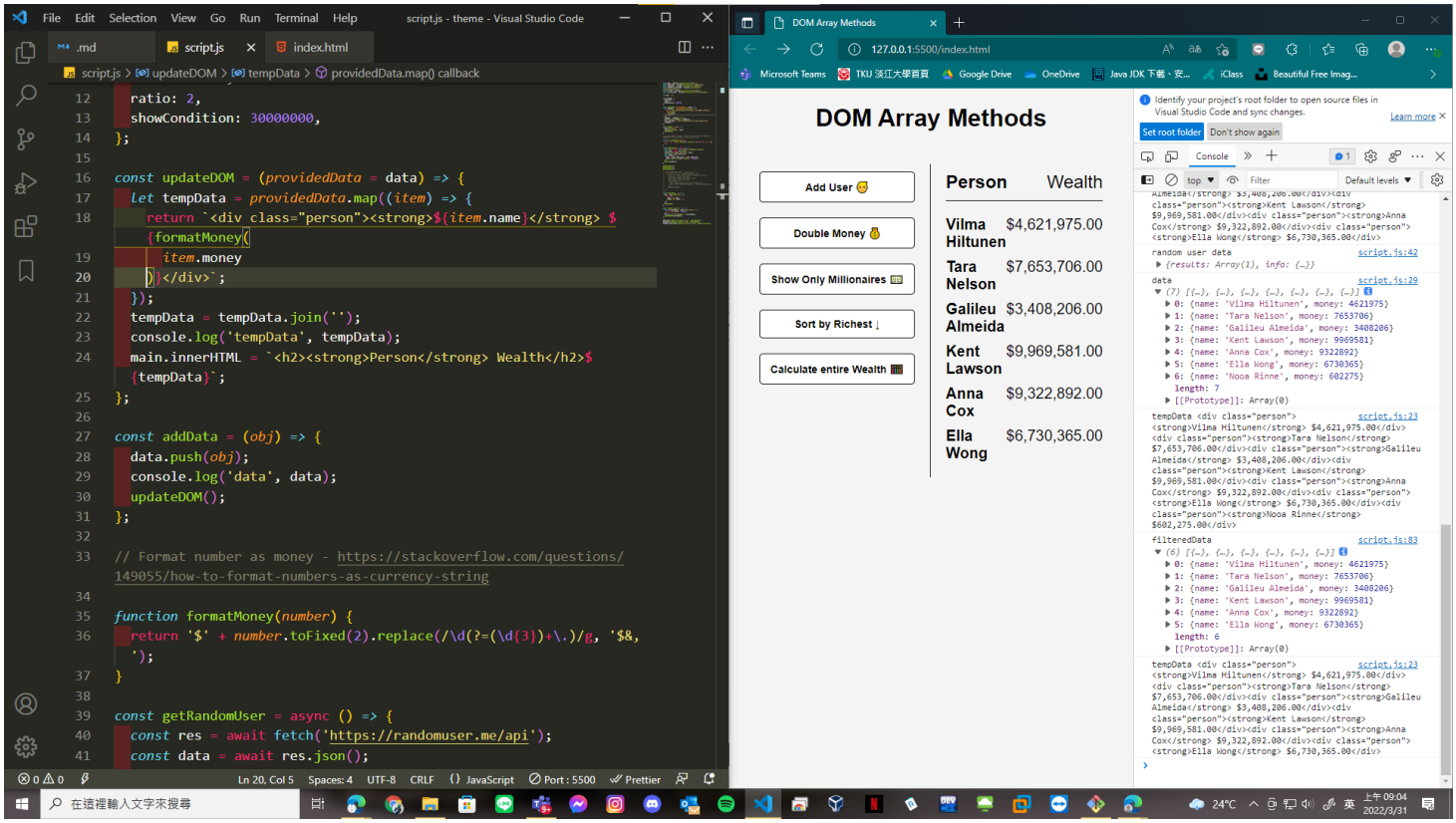


```
const main = document.querySelector('#main');
const addUserBtn = document.querySelector('#add-user')
const doubleBtn = document.querySelector('#double')
const showMillionairesBtn = document.querySelector('#show-millionaires')
const sortBtn = document.querySelector('#sortBtn')
const calculateBtn = document.querySelector('#calculateBtn')

let data = [];


const addData = (obj) => {
    data.push(obj);
    console.log('data' , data);
}

const getRandomUser = async () => {
    const res = await fetch('https://randomuser.me/api');
    const data = await res.json();
    console.log('random user data' , data)
    const user = data.results[0];
    const newUser = {
        name: `${user.name.first} ${user.name.last}` ,
        money: Math.floor(Math.random()*10000000)
    }
    addData(newUser);
}

getRandomUser();
getRandomUser();
getRandomUser();

addUserBtn.addEventListener('click' , getRandomUser);
```

P3: add 6 users to the DOM



P4: add 6 users first, then filter condition set to > 30000000



P5: use config for three buttons