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JavaScript Assignment 12

1. Write a JavaScript program to map Employee Records according to Employee IDs.

Employee: { id, name, salary }

a) Print an array of all employee ids

b) Print count of employees

c) Print the name of the employee according to their id { key: value }

d) Store the salaries of all employees in an array

e) Calculate the average salary the company is paying to its employees

```
let obj ={  
  "id": [ 67, 48, 29 ],  
  "name": [ "Hitanshu", "Ninad", "Amandeep" ],  
  "salary": [ 75000, 82000, 98000 ]  
}
```

// a) Print an array of all employee ids

```
console.log(`Employee IDs: [${obj.id}]`);
```

// b) Print count of employees

```
console.log(`Count of Employees: ${obj.id.length}`);
```

// c) Print the name of the employee according to their id { key: value }

```
const employees = new Map();
```

```
for(let i =0; i<obj.id.length; i++){  
  employees[obj.id[i]] = obj.name[i];  
}
```

```
console.log(employees);
```

// d) Store the salaries of all employees in an array

```
console.log(`Salaries of all Employees: [${obj.salary}]`);
```

```
// e) Calculate the average salary the company is paying to its employees  
let sumOfSalaries = 0;  
for(let i =0; i<obj.id.length; i++) {  
    sumOfSalaries += obj.salary[i];  
}  
console.log(`Average salary company paying is :  
${sumOfSalaries/obj.id.length}`)
```

2. Write a program in JavaScript to map the student ids, names and scores.

- a) Add data for 3 students (use map functions)
- b) Get Student Names using map functions
- c) Delete Student Scores using map functions
- d) Display 1 parameter (only value), 2 parameters (value + key), and 3 parameters (value + key + map) for the student

```
// a) Add data for 3 students (use map functions)
```

```
let students = new Map();  
students.set("id",[1,2,3]);  
students.set("name",[ 'Hitanshu', 'Ninad', 'Amandeep' ]);  
students.set("scores",[ 90, 88, 92 ]);
```

```
// b) Get Student Names using map functions
```

```
let names= students.get("name");  
console.log(names);
```

```
// d) Display 1 parameter (only value)
```

```
for(let [key,value] of students){  
    console.log(`${value}`)  
}
```

```
// Display 2 parameters (value + key)
```

```
for(let [key,value] of students){  
    console.log(`${key} : ${value}`)  
}
```

```
// Display 3 parameters (value + key + map)
```

```
console.log(students)
```

```
// c) Delete Student Scores using map functions
```

```
students.delete("scores");
```

```
console.log(students);
```

3. Write a JavaScript program to iterate over an array inputted by the user using mapping. Perform the square of all elements in the original array, store the squares in a new array and make a mapping for the squares and display it.

```
//To take input from Browser
```

```
let elements = prompt("Enter values of Array");
```

```
elements = elements.split(',');
```

```
elements = elements.map(i => parseInt(i));
```

```
//document.write(elements)
```

```
console.log(elements)
```

```
// let elements = [ 1, 2, 3, 4, 5 ];
```

```
//Squares of Input Elements
```

```
let squares = elements.map(num => num*num)
```

```
console.log(squares);
```

```
//Mapping of Elements with Squares
```

```
let mappedValues = new Map();
```

```
for(let element of elements){
```

```
    mappedValues.set(element,squares[elements.indexOf(element)]);
```

```
}
```

```
console.log(mappedValues)
```