

# PW SKILL ASSIGNMENT

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## Problem 1:

Create a Map in JavaScript and perform the following operations.

- ❖ Add key-value pairs to the Map
- ❖ Check if a specific key exists
- ❖ Retrieve the value associated with a given key
- ❖ Iterate through all key-value pairs.

## Answer:

// 1. Creating a new Map

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

### 1. Adding key-value pairs to the Map

```
myMap.set('name', 'Rajkamal Yadav');
```

```
myMap.set('age', 25);
```

```
myMap.set('country', 'India');
```

```
console.log("Map after adding key-value pairs:");
```

```
console.log(myMap);
```

### 2. Checking if a specific key exists

```
const hasAge = myMap.has('age');
```

```
console.log(`Does the key 'age' exist?: ${hasAge}`); // Outputs: true
```

```
const hasGender = myMap.has('gender');
```

```
console.log(`Does the key 'gender' exist?: ${hasGender}`); // Outputs: false
```

### 3. Retrieving the value associated with a given key

```
const name = myMap.get('name');
```

```
console.log(`Value for key 'name': ${name}`); // Outputs: Rajkamal Yadav
```

```
const age = myMap.get('age');
```

```
console.log(`Value for key 'age': ${age}`); // Outputs: 25
```

#### 4. Iterating through all key-value pairs

```
console.log("Iterating through all key-value pairs in the Map:");  
myMap.forEach((value, key) => {  
  console.log(`${key}: ${value}`);  
});
```

#### Out Put:

```
Does the key 'gender' exist?: false  
module34.js:21 Value for key 'name': Rajkamal Yadav  
module34.js:24 Value for key 'age': 25  
module34.js:27 Iterating through all key-value pairs in the Map:  
module34.js:29 name: Rajkamal Yadav  
module34.js:29 age: 25  
module34.js:29 country: India
```