## DAY 1 - ASSIGNMENT

# **Assignment 1: Array Operations**

Objective: Practice adding, removing, and updating values in arrays.

1. Create an empty array called "fruits".

```
Code: let fruits=[ ]
```

2. Add the following fruits to the "fruits" array: "apple", "banana", "orange".

#### Code:

```
let fruits=["apple", "banana", "orange"]
console.log(fruits)
```

#### Output:

3. Remove the first fruit from the array.

#### Code

```
let fruits=["apple","banana","orange"]
fruits.splice(0,1)
console.log(fruits)
```

## **Output:**

4. Add "grape" to the end of the array.

#### Code:

```
let fruits=["apple","banana","orange"]
fruits.push("grape")
console.log(fruits)
```

```
Default levels ▼ No Issues 
(4) ['apple', 'banana', 'orange', 'grape']
app.js:3
```

5. Update the second fruit in the array to "pear".

## Code:

```
let fruits=["apple","banana","orange"]
fruits.splice(1,1,"pear")
console.log(fruits)
```

## **Output:**

```
      Image: The control of the control
```

6. Print the final "fruits" array after performing the above operations.

## Code:

```
let fruits=["apple", "banana", "orange"]
console.log(fruits)
fruits.splice(0,1)
fruits.push("grape")
fruits.splice(1,1, "pear")
console.log(fruits)
```

```
      ▶ (3) ['apple', 'banana', 'orange']
      app.js:2

      ▶ (3) ['banana', 'pear', 'grape']
      app.js:6
```

# **Assignment 2: Object Operations**

Objective: Practice adding, removing, and updating values in objects.

1. Create an empty object called "person".

```
Code: let person={ }
```

- 2. Add the following properties to the "person" object:
  - name: "John"
  - age: 30
  - city: "New York"

#### Code:

```
let person={
          name:"John",
          age: 30,
          city: "New York"
}
console.log(person)
```

## **Output:**

```
Default levels ▼ No Issues 

No Issu
```

3. Remove the "age" property from the "person" object.

## Code:



4. Add a new property called "job" with the value "Engineer" to the "person" object.

#### Code:

## **Output:**

5. Update the "city" property of the "person" object to "San Francisco".

#### Code:

## **Output:**

6. Print the final "person" object after performing the above operations.

#### Code:

## **Output:**

```
▶ {name: 'John', age: 30, city: 'New York'} app.js:6
▶ {name: 'John', city: 'San Francisco', job: 'Engineer'} app.js:10
```

# **Assignment 3: Array of Objects Operations**

Objective: Practice adding, removing, and updating values in an array of objects.

1. Create an empty array called "cars".

```
Code: let cars=[ ]
```

- 2. Add three car objects to the "cars" array. Each car object should have the following properties:
  - make: "Toyota"- model: "Camry"- year: 2018

#### Code:

#### **Output:**

3. Remove the first car object from the "cars" array.

#### Code:

# **Output:** Default levels ▼ No Issues 🛞 **▼** (2) [{...}, {...}] i app.js:7 ▶ 0: {make: 'Toyota', model: 'Camry', year: 2018} ▶ 1: {make: 'Toyota', model: 'Camry', year: 2018} length: 2 ▶ [[Prototype]]: Array(0)

4. Add a new car object to the "cars" array with the following properties:

- make: "Honda" - model: "Civic" - year: 2020

#### Code:

```
let cars=[
```

#### **Output:**

```
Default levels ▼ No Issues 🔅
    ▼ (4) [{...}, {...}, {...}, {...}] i
                                                                                           app.js:7
      ▶ 0: {make: 'Toyota', model: 'Camry', year: 2018}
▶ 1: {make: 'Toyota', model: 'Camry', year: 2018}
▶ 2: {make: 'Toyota', model: 'Camry', year: 2018}
       ▶ 3: {make: 'Honda', model: 'Civic', year: 2020}
         length: 4
       ▶ [[Prototype]]: Array(0)
```

5. Update the "model" property of the second car object in the array to "Accord".

#### Code:

```
let cars=[
```

6. Print the final "cars" array after performing the above operations.

#### Code: