

Locker Management System

Instruction:

- Develop a **Locker** class that allows for secure interactions such as setting a password, changing the password, and unlocking the locker using the correct password. This practice emphasizes data protection and secure method-based interaction with object properties.

Locker::

Constructor

- **Constructor(password):**
 - **Parameters:** **password** type: string
 - Initializes the locker as locked (**true**) and sets the initial password, provided as an argument.

Properties

- **locked:** Indicates whether the locker is locked or unlocked, type: boolean.
- **password** : Stores the locker's password securely, type: string.

Methods

- **setPassword(oldPassword, newPassword):**
 - **Parameters:** **oldPassword** type: string, **newPassword** type: string
 - Allows the password to be changed if the old password provided matches the current one. **Return** string "success" and "unsuccess" failure cases.
- **unlock(password):**
 - **Parameters:** **password** type: string
 - Attempts to unlock the locker if the correct password is provided, with **Return** string for both "correct" and "incorrect" password attempts. Then, set 'locked' to false.
- **lock():**
 - **Parameters:** -
 - Lock the locker. Then, set 'locked' to true.
- **isLocked():**
 - **Parameters:** -
 - **Returns** the locked status of the locker without changing its state, providing a means to check if the locker is "locked" or "unlocked".

*For Module 1.1

- **tryMultiplePasswords(passwordsArray)**
 - **Parameters:** passwordsArray (type: array of string)
 - Attempts to unlock the locker using a list of possible passwords. Tries each password until one succeeds or all fail. **Returns** "unlocked" if one of the passwords was correct, "still locked" otherwise.

```
class Locker {  
  
}  
  
const myLocker = new Locker("1234");  
  
console.log(myLocker.unlock("1111")); // Attempting with the wrong password: "incorrect"  
console.log(myLocker.unlock("1234")); // Attempting with the correct password: "correct"  
console.log(myLocker.isLocked()); // Checking if unlocked: "unlocked"  
  
myLocker.lock(); // Locking the locker  
console.log(myLocker.isLocked()); // Should be "locked"  
  
// Attempting to unlock with multiple passwords  
console.log(myLocker.tryMultiplePasswords(["1111", "2222", "1234"])); // "unlocked"
```