# JS Advanced: Regular Exam - 26.10.19

Exam problems for the ["JavaScript Advanced" course @ SoftUni](https://softuni.bg/courses/js-advanced). Submit your solutions in the SoftUni Judge system at [https://judge.softuni.bg/Contests/Compete/Index/](https://judge.softuni.bg/Contests/Compete/Index/1850#2).

# Problem 3. Ski Forum

**class** Forum {  
 *//* ***TODO: implement this class...***  
}

### Your Task

### Write a Forum class, which supports the described functionality below.

### Functionality

#### constructor()

Should have these **3 private** properties:

* **users** - empty array
* **questions -**  **empty** **array**
* **id**  - **number with initial value 1**

#### register({username}, {password}, {repeatPassword}, {email})

This function should register new user and add it to the users array.

* If one of the passed parameters is empty string (""), this function should throw an error with the following message

"**Input can not be empty"**

* If password is different from the repeat password, an error with the following message should be thrown:

**"Passwords do not match"**

* If an user with such username or email is already registered, an error with the following message should be thrown:

**"This user already exists!"**

* If registration is successful the function should return the following message:

**"{username} with {email} was registered successfully!"**

#### login({username}, {password})

This **function** should log in an existing user.

* If there is no registered user with that username, an error with the following message should be thrown:

**"There is no such user"**

* If the username and the password match with those of a registered user, this function should return the following message:

**"Hello! You have logged in successfully"**

#### logout({username}, {password})

This **function** should log out a logged user.

* If there is no registered user with that username, an error with the following message should be thrown:

**"There is no such user"**

* If the username and the password match with those of a registered user, this function should return the following message:

#### "You have logged out successfully"

#### postQuestion({username}, {question})

This function should post a new question with id, equal to the private field's id value .Every time a new question is added the id is incremented.

* If there is no user with that username, or he isn't logged in, an error with the following message should be thrown:

#### "You should be logged in to post questions"

* If the question is equal to empty string (""), an error with the following message should be thrown:

#### "Invalid question"

* If a question can be posted, you should add it to the questions array and return the following message:

#### "Your question has been posted successfully"

#### postAnswer({username}, {questionId}, {answer})

This function should post an answer to the question with the given id.

* If there is no user with that username, or he isn't logged in, an error with the following message should be thrown:

#### "You should be logged in to post answers"

* If the answer is equal to empty string (""), an error with the following message should be thrown:

#### "Invalid answer"

* If there is no question with the given id, an error with the following message should be thrown:

#### "There is no such question"

The function should return the following message:

#### "Your answer has been posted successfully"

#### showQuestions()

This function should return a sting with all the questions and their answers in the following format:

#### "Question {id} by {username}: {question}

#### ---{username}: {answer}

#### Question {id} by {username}: {question}

#### ---{username}: {answer}

#### ---{username}: {answer}

#### . . . "

### Submission

Submit only your **Forum class.**

### Examples

This is an example how the code is **intended to be used**:

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| --- |
| Sample code usage |
| let forum = new Forum();  forum.register('Michael', '123', '123', 'michael@abv.bg');  forum.register('Stoyan', '123ab7', '123ab7', 'some@gmail@.com');  forum.login('Michael', '123');  forum.login('Stoyan', '123ab7');  forum.postQuestion('Michael', "Can I rent a snowboard from your shop?");  forum.postAnswer('Stoyan',1, "Yes, I have rented one last year.");  forum.postQuestion('Stoyan', "How long are supposed to be the ski for my daughter?");  forum.postAnswer('Michael',2, "How old is she?");  forum.postAnswer('Michael',2, "Tell us how tall she is.");  console.log(forum.showQuestions()); |
| Corresponding output |
| Question 1 by Michael: Can I rent a snowboard from your shop?  ---Stoyan: Yes, I have rented one last year.  Question 2 by Stoyan: How long are supposed to be the ski for my daughter?  ---Michael: How old is she?  ---Michael: Tell us how tall she is. |

|  |
| --- |
| Sample code usage |
| let forum = new Forum();  forum.register('Jonny', '12345', '12345', 'jonny@abv.bg');  forum.register('Peter', '123ab7', '123ab7', 'peter@gmail@.com');  forum.login('Jonny', '12345');  forum.login('Peter', '123ab7');  forum.postQuestion('Jonny', "Do I need glasses for skiing?");  forum.postAnswer('Peter',1, "Yes, I have rented one last year.");  forum.postAnswer('Jonny',1, "What was your budget");  forum.postAnswer('Peter',1, "$50");  forum.postAnswer('Jonny',1, "Thank you :)");  console.log(forum.showQuestions()); |
| Corresponding output |
| Question 1 by Jonny: Do I need glasses for skiing?  ---Peter: Yes, I have rented one last year.  ---Jonny: What was your budget  ---Peter: $50  ---Jonny: Thank you :) |

*GOOD LUCK!😊*