

Question 1:

- a. What will be printed by the following code snippet in non-strict mode (answer without running it)?
- b. Draw the lexical environment diagram for the given code snippet. Or you may list it instead of drawing. For example:
 1. Global EC creation:
LE:{ ..., outer:null}, TDZ{...}
 - 2.Global EC execution:
LE:{ ..., outer:null}, TDZ{...}
 - 3.display FEC creation:
LE:{ ..., outer:null}, TDZ{...}
 - 4.display FEC execution:
LE:{ ..., outer:null}, TDZ{...}
 - ...

```
let str = "Greetings, ";
let user = {
  firstName: "John",
  lastname: "Smith",
  display: function () {
    console.log(str, this.firstName);
    show("hi");
  }
};
user.display();
function show(msg) {
  console.log(msg + " " + this.lastname);
}
show.call(user, "hello");
```

code snippet

Question 2: Fix using wrapper, bind, call, apply.

Fix a function that loses "this"

importance: 5

The call to `askPassword()` in the code below should check the password and then call `user.loginOk/loginFail` depending on the answer.

But it leads to an error. Why?

Fix the highlighted line for everything to start working right (other lines are not to be changed).

```
1 function askPassword(ok, fail) {
2   let password = prompt("Password?", '');
3   if (password == "rockstar") ok();
4   else fail();
5 }
6
7 let user = {
8   name: 'John',
9
10  loginOk() {
11    alert(`${this.name} logged in`);
12  },
13
14  loginFail() {
15    alert(`${this.name} failed to log in`);
16  },
17
18 };
19
20 askPassword(user.loginOk, user.loginFail);
```

Question 3: Fix the code below using bind

```
let group = {
  title: "Our Group",
  students: ["John", "Pete", "Alice"],

  showList: function() {
    this.students.forEach(function(student) {
      console.log(this.title + ": " + student);
    });
  }
};
group.showList();
```