

## Q1:

### Error Statement

askPassword is global function so that 'this' reference is method of window.

user.loginOk, user.loginFail are referring to loginOk, loginFail of user local variable.

The original calling "askPassword(user.loginOk, user.loginFail);" is passing as the argument and the value of 'this' will be window when they are calling inside of askPassword global function.

Therefore, the losing 'this' problem occurred.

### Modified code

```
function askPassword(ok, fail){
    let password = prompt("Password? ", "");
    if (password == "rockstar") ok();
    else fail();
}

let user = {
    name: 'John',
    loginOk(){
        alert(`${this.name} logged in`);
    },
    loginFail(){
        alert(`${this.name} failed to log in`);
    },
};
```

#### **// solution 1: using bind**

```
askPassword(user.loginOk.bind(user), user.loginFail.bind(user));
```

#### **// solution2: using anonymous function wrapped**

```
askPassword(function() { user.loginOk(); }, function() { user.loginFail(); });
```

#### **// solution3: using arrow function wrapped**

```
askPassword(() => user.loginOk(), () => user.loginFail());
```

**Q2:**

```
let group = {  
  title: "Our Group",  
  students: ["John", "Pete", "Alice"],  
  showList: function () {  
    this.students.forEach(function (student) {  
      console.log(this.title + ": " + student);  
    }).bind(this);  
  }  
};  
group.showList();
```