

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

1. Global EC creation:
LE:{ outer: null, show: fn }, TDZ{str, user}
this: window
- 2.Global EC execution:
LE:{ outer: null, show: fn, str: "Greetings, ", user: obj}
this: window
- 3.display FEC creation:
LE:{ arguments: {length:0}, outer: global}
this: user
- 4.display FEC execution:
LE:{ arguments: {length:0}, outer: global}
this: user
- 5.show FEC creation:
LE:{ arguments: {0:"hi", length:1}, msg: "hi", outer: global}
this: window
- 6.show FEC execution:
LE:{ arguments: {0:"hi", length:1}, msg: "hi", outer: global}
this: window
- 7.show.call FEC creation:
LE:{ arguments: {0:"hello", length:1}, msg: "hello", outer: global}
this: user
8. show.call FEC creation:
LE:{ arguments: {0:"hello", length:1}, msg: "hello", outer: global}
this: user