

# MAHARISHI INTERNATIONAL UNIVERSITY Master's Degree in Computer Science Computer Professionals Program (ComPro)

February 2023

Osama Ahmed Zakaria Abdelhamid

Student ID: 615881

CS472 - Prof. Ankhtuya Ochirbat - Lab6

May 6, 2023

## Lab 6 -> Answers

4. Miles will be autored by the fellowing and entered formation with a transfer to 20.

- 1. What will be printed by the following code snippets (answer without running it)?
- 2. Draw the lexical environment diagram for each code snippet.

\_\_\_\_\_\_

#### Code 1:

1) To be printed

- → Undefined 8 8 2 9 10 1
- 2) Lexical environment diagram →

```
F - FFC:
             Outer: C
arguments:{0:8, 1:9, 2:10, length: 3}
         a=8, b=10, c=10
               x=5
            C - FEC:
          Outer: Global
arguments:{0:8, 1:9, 2:10, length: 3}
         a=8, b=9, c=10
               f: fn
              x=10
              GEC:
           Outer: Null
               x=1
               a=5
              b = 10
               c: fn
```

\_\_\_\_\_\_

## Code 2:

```
var x = 9;
function myFunction() {
    return x * x;
}
document.write(myFunction());
x = 5;
document.write(myFunction());
```

- 1) To be printed
- **→** 81 25
- 2) Lexical environment diagram →

myFunction: FEC Outer: Global arguments:{length:0}

> GEC: Outer: Null myFunction: fn x = 5

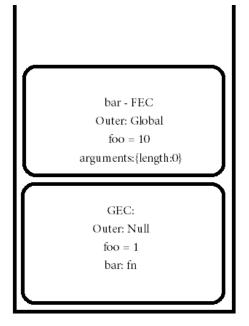
\_\_\_\_\_\_



## Code 3:

```
var foo = 1;
function bar() {
        if (!foo) {
            var foo = 10;
        }
        alert(foo);
}
```

- 1) To be printed → 10
- 2) Lexical environment diagram →



\_\_\_\_\_\_

