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Week 2 Day 3 Lab – Closure and Module Pattern

|  |  |  |
| --- | --- | --- |
| **Global** Environment context | **C** function Environment context | **F** function Environment context |
| 1. Declarations on 1st pass    1. x = undefined    2. a = undefined    3. b = undefined 2. Execution on 2nd pass    1. x = 1    2. a = 5    3. b = 10    4. prints **b** as **10**    5. prints **x** as 1 | 1. declaration on 1st pass    1. x = undefined 2. Execution on 2nd pass    1. prints **x** as **undefined**    2. prints **a** as **8**    3. prints b as 9    4. x = 10 | 1. Declaration on 1st pass    1. b = undefined    2. x = undefined 2. Execution on 2nd pass    1. b = 8    2. prints **b** as **8**    3. b = 10    4. x = 5 |

**Qn. 1.**

**Qn. 2.**

Any variable declared outside of a function belongs to the global scope and is therefore accessible from anywhere in your code.

Any variable declared within a function is only accessible from that function and any nested functions has local scope.

**Qn. 3.**

1. No // Out scope cannot access inner scope variables
2. Yes // Inner variables have access to outer variables of the calling function
3. No // Out scope cannot access inner scope variables
4. Yes // Inner variables have access to outer variables of the calling function
5. Yes // Inner variables have access to outer variables of the calling function

**Qn. 4**

document.write(myFunction()) //prints 81

document.write(myFunction()) //25

**Qn. 5**

Alerts 10 // foo in the bar function environment is hoisted and by the time it executes, it is still undefined hence making the if statement to return true.