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Week 2 Day 3 Lab – Closure and Module Pattern

**Qn. 1. Output - Undefined , 8 , 8, 9 10 , 1**

**Global 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**

2.5 prints **x** as 1

**C function Environment context**

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| --- |
| 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   4.4.x = 10 |

**F function Environment context**

|  |
| --- |
| 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   6.4.x = 5 |

**Qn. 2.**

Variable declared outside function belongs to the global scope and accessible from anywhere in code.

Variable declared inside a function is only accessible from that function and any nested functions -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**

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**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.