**QUESTION 1**

What will be the output of the following (Also write the reason for the answer)

var a = 2;

var c = 2;

function b(){

var x = 2;

var c = 4

console.log(c)

}

console.log(a);

console.log(this.a);

console.log(this.c)

console.log(this.x)

console.log(window.a)

console.log(window.x)

console.lof(b());

output =>

2 // since a=2

2 // this points to global scope or window object where a=2

2 // this points to global scope or window object where c=2

Undefined // this points to global scope or window object where c is undefined

2// window points to global reference of a where its value is 2

Undefined // window points to global scope where c is undefined

4 // value of c is 4 in local execution stack of function b

**Question 2**

**Find the output and write the reason**

function abc() {

console.log(a);

}

var a = 7;

abc();

output=>

7

Reasoning=>

PHASE 1 (Memory Alocation )

|  |  |
| --- | --- |
| MEMORY COMPONENT | CODE |
| abc: function(){  console.log(a);  } |  |
| a:undefined |  |

PHASE 2 (Comiple Code)

|  |  |
| --- | --- |
| MEMORY COMPONENT | CODE |
| abc: function(){  console.log(a);  } | a=7 //it initialize a with 7 |
| a:7 | abc() // it will print a ie., 7 |