JAVA SCRIPT

EP-4

->HOW FUNCTIONS WORKS IN JS AND THE VARIABLE ENVIORMENT

**CODE:**

var x = 1;

a();

b();

console.log(x);

function a() {

var x = 10;

console.log(x);

}

function b() {

var x = 100;

console.log(x);

}

**CONSOLE:**

10

100

1

1st phase

|  |  |
| --- | --- |
| MEMORY | CODE |
| x:undefined  a:{..}  b:{..} |  |

2nd phase

|  |  |
| --- | --- |
| MEMORY | CODE |
| x:~~undefined~~ 1  a:{..}  b:{..} | var x=1  a:   |  |  | | --- | --- | | MEMORY | CODE | | x:undefined |  |  |  |  | | --- | --- | | MEMORY | CODE | | x:~~undefined~~  10 | var x=10 |   b:   |  |  | | --- | --- | | MEMORY | CODE | | x:undefined |  |  |  |  | | --- | --- | | MEMORY | CODE | | x:~~undefined~~  100 | var x=100 |   Console.log(x);//in local memory x is 1 |

* Every function has its own execution context or memory space running separately running independent of each other.