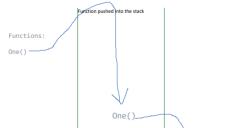
JavScript

```
20 May 2024 13:45
```

```
/* JavaScirpt Execution Context(How Code runs in JS ) --
In Browser Execution Context is Window Object.
In 15 Three Execution context are present--
1) Global Execution Context
2) Function Execution Context
3) Eval Execution Context
Every JavaScript code runs in two phases
1) Memory Creation Phase or Creation Phase --
    Here memory is allocated
Let's Decode how this code will work --
Sample Code --
 let val2 =2
function addNum(num1,num2){
    let total = num1+num2
    return total
let result1 = addNum(val1,val2)
let result2 = addNum(10,2)
Step 1: Global Execution(It is allocated in this keyword)
Step 2: Memory phase( all variables are collected and given undefined value and functions names get the definition of function) --
addNum=defined
vall=undefined
resultl=undefined
resultl=undefined
Step 3: Execution phase( In this every variable will get their value and)
                                                                                             New variable environment
           val1 <-- 10
val2 <-- 5
addNum --> Here the function will create a new
           Exery time a function occur this box will be created And again new memory phase and execution phase will be created Only for that particular function.
                                                                                                                       After all Work done it will deleted
                                                               num1 --> 10
num2 --> 5
total --> 15
This total will return to Global Executional con
Step 4: Now for line no 8 of code that is
            let result2 = addNum(10,2)
            This box will be created and everything Happens in the same way.
                                                                                                        After all Work done it will deleted
Memory Phase
                                                Execution Context
                                                       m1 --> 10
m2 --> 2
vtal --> 12
This total will return to Global Executional context
Call Stack -
In Call stack a stack is created having Global Execution Context and all functions resides outside of the stack. If they are called individually then one function will push into the stack and the function will be executed And after execution it will pop out.
```



Global Execution Context

When Function one() will called When Function two() will called

Three()

Global Execution Context

After execution it will popper

When Function three() will called

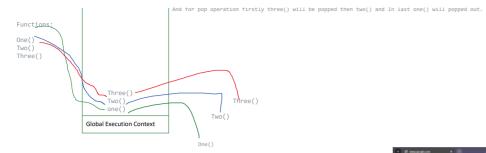
If we call a function into an another function then this process will be same and Push operation and pop operation will work according to LIFO principle.

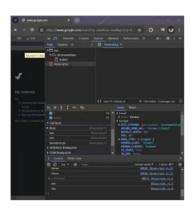


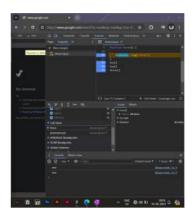
Here firstly one will called and it will push into the stack and if we call two into 'One then two will be pushed and again we call three into the two then three will be pushed And for pop operation firstly three() will be popped then two() and In last one() will popped out.

Two()

Global Execution Context







Here are two snippets that shows how Call Stacks works in browser