Assignment 8: Closure and Execution context			
While-loop Execution Context	execution	TDZ	
LE: {this: window, Outer: makeArmy, arg:	i=2; while(2!<2),		shooters
0, length: 1	shooters returned, while loop finished		executed
	at resume stage i =2, => return is empty		(returned)
While-loop Execution Context	Execution	TDZ	
LE: {this: window, Outer: makeArmy, arg:	i=1; while(1<2),		Paused
0, length: 1	shooter = function(){alert(i);}		resumed
	shooters.push() = [],		
While-loop Execution Context	execution	TDZ	
LE: {this: window, Outer: makeArmy, arg:	i=0; while(0<2),	shooter	Paused
0, length: 1}	shooter = function(){alert(i);}		resumed
	shooters.push() = [],		
makeArmy(): Execution context: Creation	execution	TDZ	paused
LE: {this: window, outer: global	Shooters = []; i= 0; while (i < 2)	Shooters, i	
Global execution Context: Creation	Execution	TD Z	paused
LE:{makeArray: fn, this:Window,	army = makeArmy(); }	army	
Outer:null			

Questions to complete execution stack:

- 1. Are there variables in the global lexical environment declared using 'var'?
- 2. Are there function declarations in the global lexical environment?
- 3. Are there variables and functions created using const and let?
- 4. What is the outer environment for the current lexical environment?
- 5. What does the 'this' binding refer to?
- 6. Are there arguments to functions?

Home Work Questions

Draw a lexical environment diagram for the right code and show:

- ➤ global lexical environment (LE) The table above
- ➤ LE for makeArmy() The table above
- > LE for the while loop The table above
- ➤ LE for army[0] TDZ
- ➤ What will army[0] alert? outputs f(){alert(i)};
- ➤ Can you fix the code? Code is fixed yellow shaded
- ➤ How will the diagram change? As below using closure diagram

```
function makeArmy() {
    let shooters = [];
    let i = 0;
    while (i < 2) {
    let shooter = function() {
        alert(j);
        };
    shooters.push(shooter);
        i++;
    } return shooters;
    }
    let army = makeArmy();
    army[0] (call correction)</pre>
```

Closure scope

at the end of while loop we get i = 2, outer global,

```
Army() – Execution context,
```

Creation:

LE: {outer: makeArmy() =>closure scope,

Since makeArmy() is not there after shooters is returned, use closure scope

Execution: while I = 2 alert(i);

Code correction

```
function makeArmy() {
let shooters = [];
let i = 0;
while (i < 2) {
let j = i;
let shooter = function() {
  console.log(j);
};
shooters.push(shooter);
i++;
}
return shooters;
}
let army = makeArmy();</pre>
```

army.forEach(f => f());