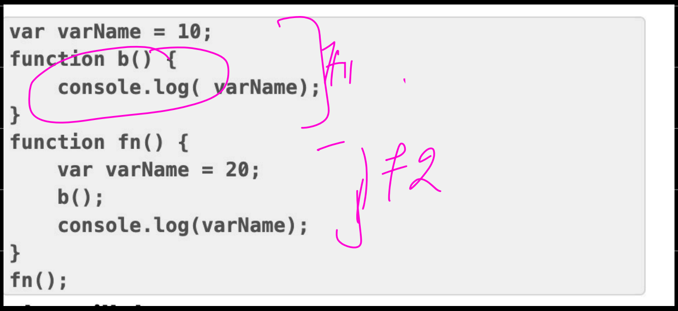
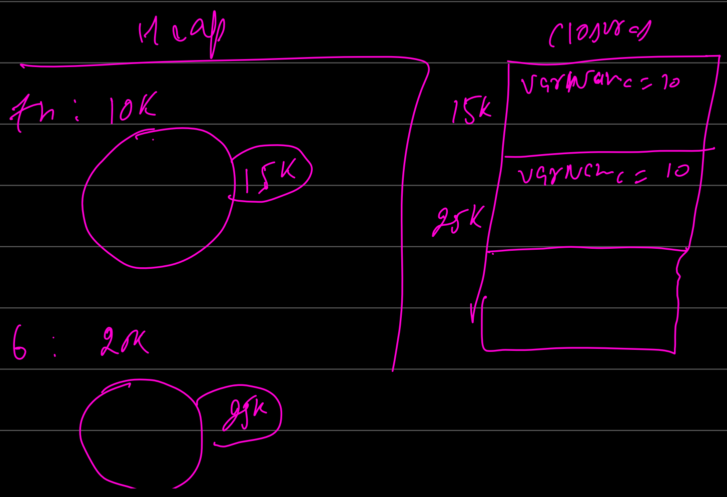
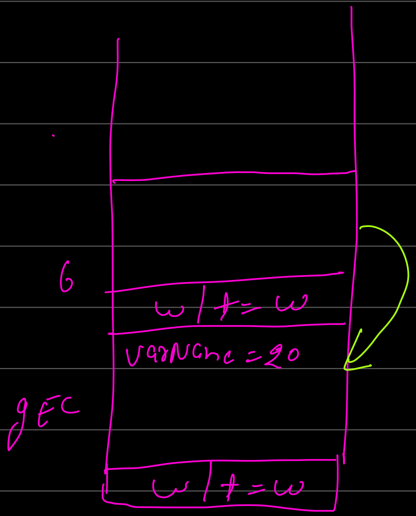
Agenda.

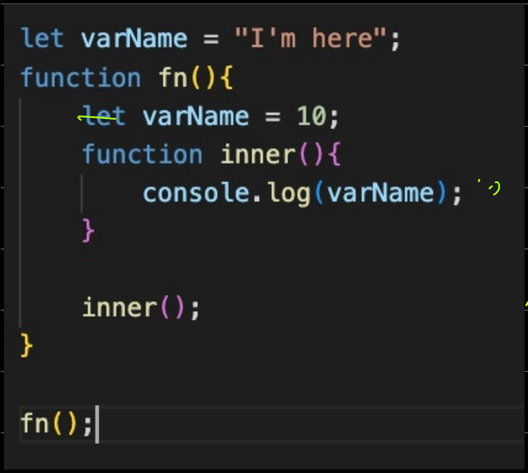
1. lexical scope in js
2. Closures, nested closures.
3. Closures vs Block scope
4. Application of closures.
5. HOF.



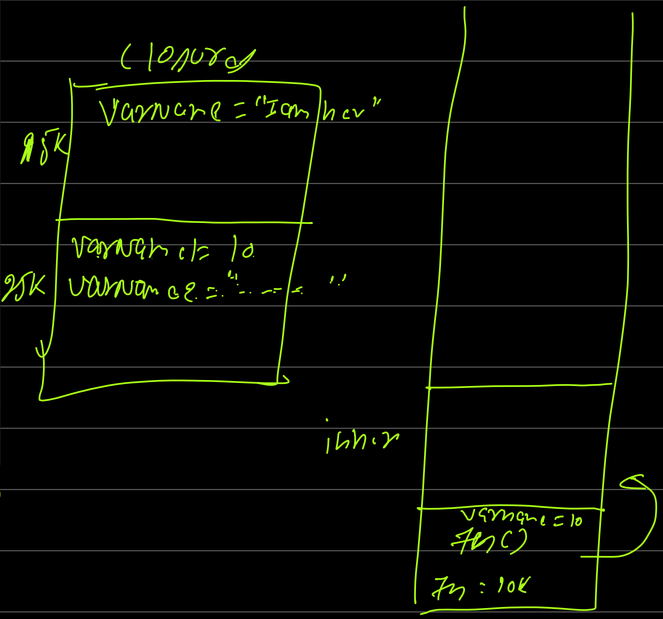
```
var varName = 10;
function b() {
    console.log( varName);
}
function fn() {
    var varName = 20;
    b();
    console.log(varName);
}
fn();
```

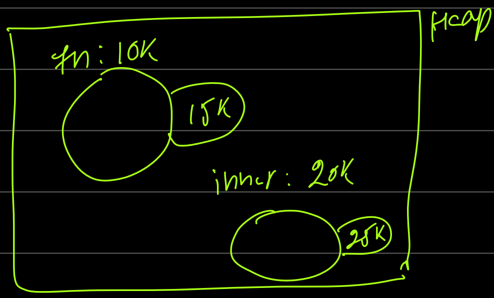




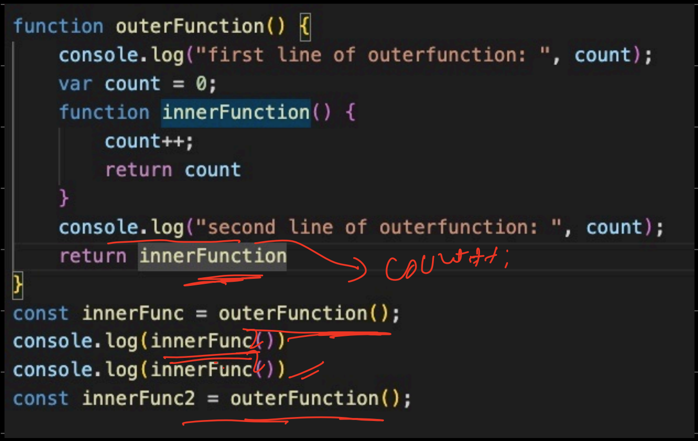


```
let varName = "I'm here";
function fn(){
    ~~let~~ varName = 10;
    function inner(){
        console.log(varName);
    }

    inner();
}

fn();
```



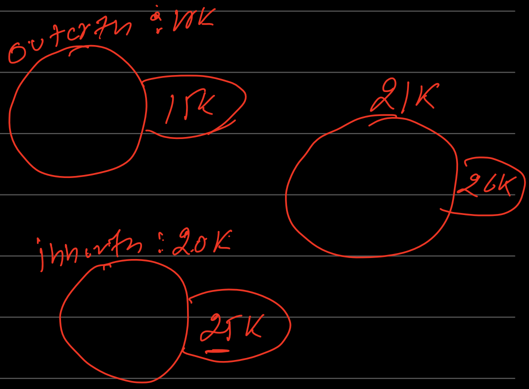


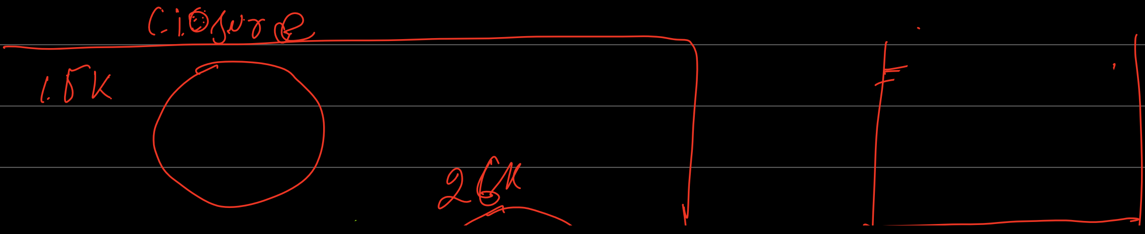
Hoisting it is undefined.

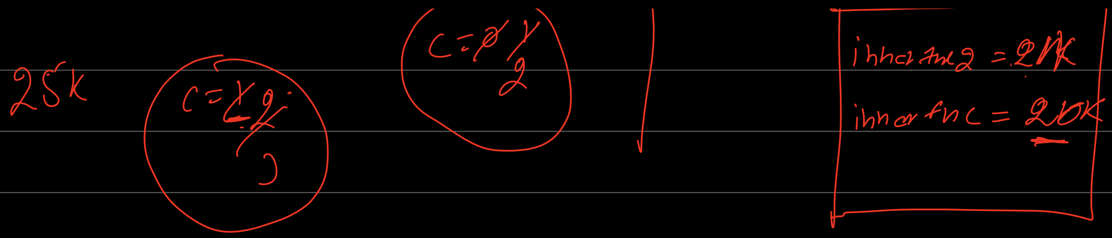


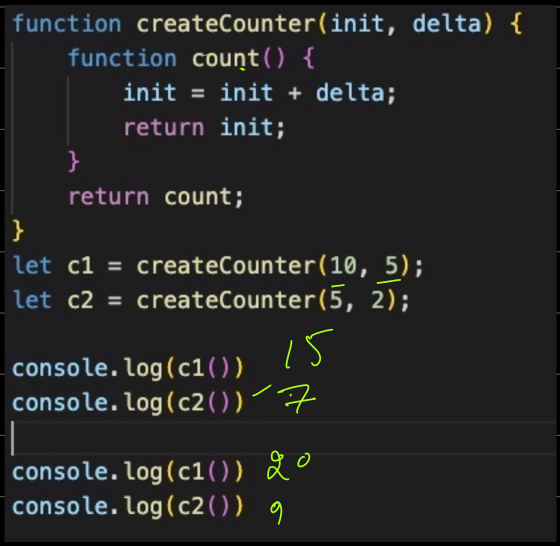
```
function outerFunction() {
    console.log("first line of outerfunction: ", count);
    var count = 0;
    function innerFunction() {
        count++;
        return count
    }
    console.log("second line of outerfunction: ", count);
    return innerFunction
}
const innerFunc = outerFunction();
console.log(innerFunc())
console.log(innerFunc())
const innerFunc2 = outerFunction();
```

count++;

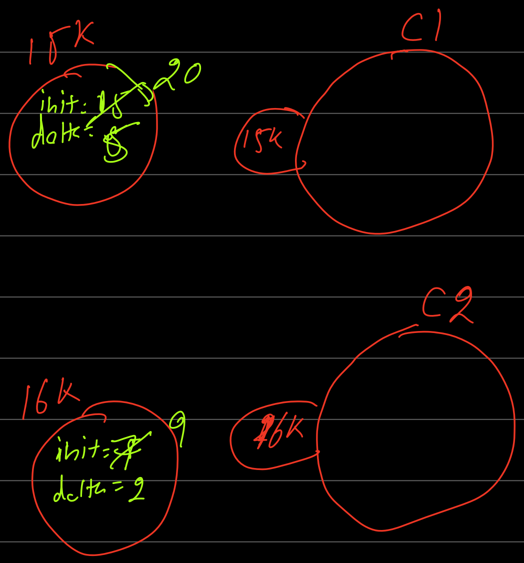


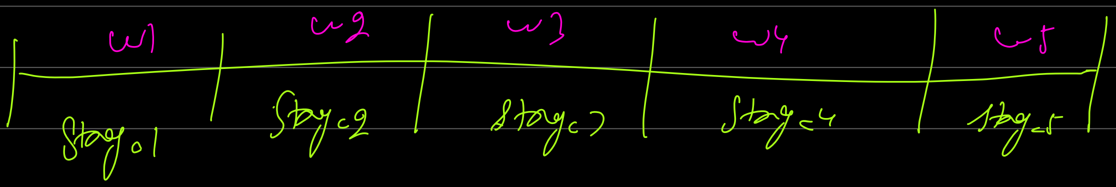






```
function createCounter(init, delta) {
    function count() {
        init = init + delta;
        return init;
    }
    return count;
}
let c1 = createCounter(10, 5);
let c2 = createCounter(5, 2);

console.log(c1())  15
console.log(c2())  7

console.log(c1())  20
console.log(c2())  9
```





ITR filing

1. Basic details
2. income details
3. deduction (80C, 80CCD)
4. deduction (HRA, House)
5. deduction (losses)
6. verify

(7) otp

(8) submit