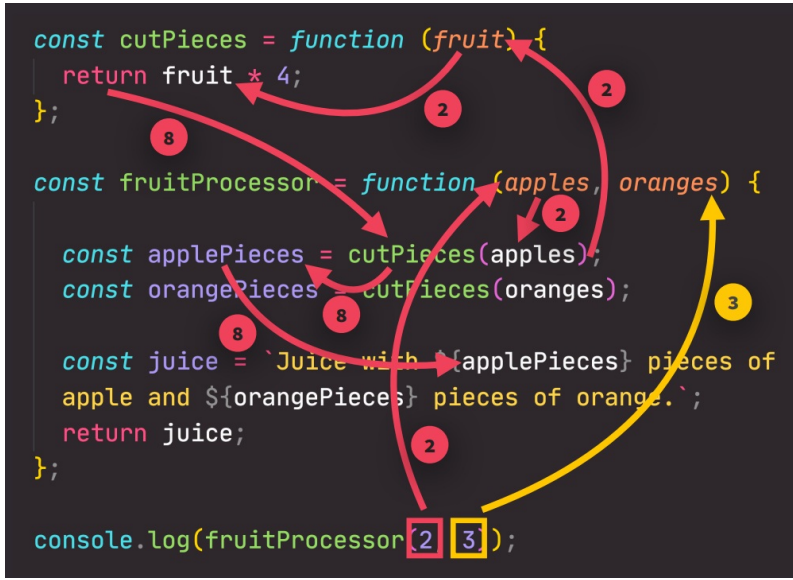

const cutPieces = function (fruit) {
return fruit * 4;
};
const fruitProcessor = function (apples, oranges) {
const applePieces = cutPieces(apples);
const orangePieces = cutPieces(oranges);
const juice = `Juice with ${applePieces} pieces of
apple and ${orangePieces} pieces of orange.`;
return juice;
};
console.log(fruitProcessor(2, 3));
2
2
8
2
8
8
3
2

* **Functions** : (Abstraction → hiding Implementation details)

→ solves the problem of DRY, provides reusability

→ can take Inputs in form arguments

→ can give ouputs / result using return keyword

→ return shutdowns the function, any after return will not be executed, you can send any values with return.

→ we used many functions without knowing them,

```
const a = Number("123")
const s = String(123)
const b = parseInt(5/10)
```

fromCharCode( )
charCodeAt( )
console.log( )

what ?
how to use ?
how they work → code ✓
internally (JS) v.imp ✗

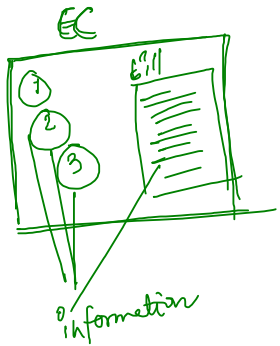
9:15pm - 9:30pm
BREAK

★ Execution Context :

→ It is like a box, where a piece of JS code is executed

It contains all info for the code to be executed

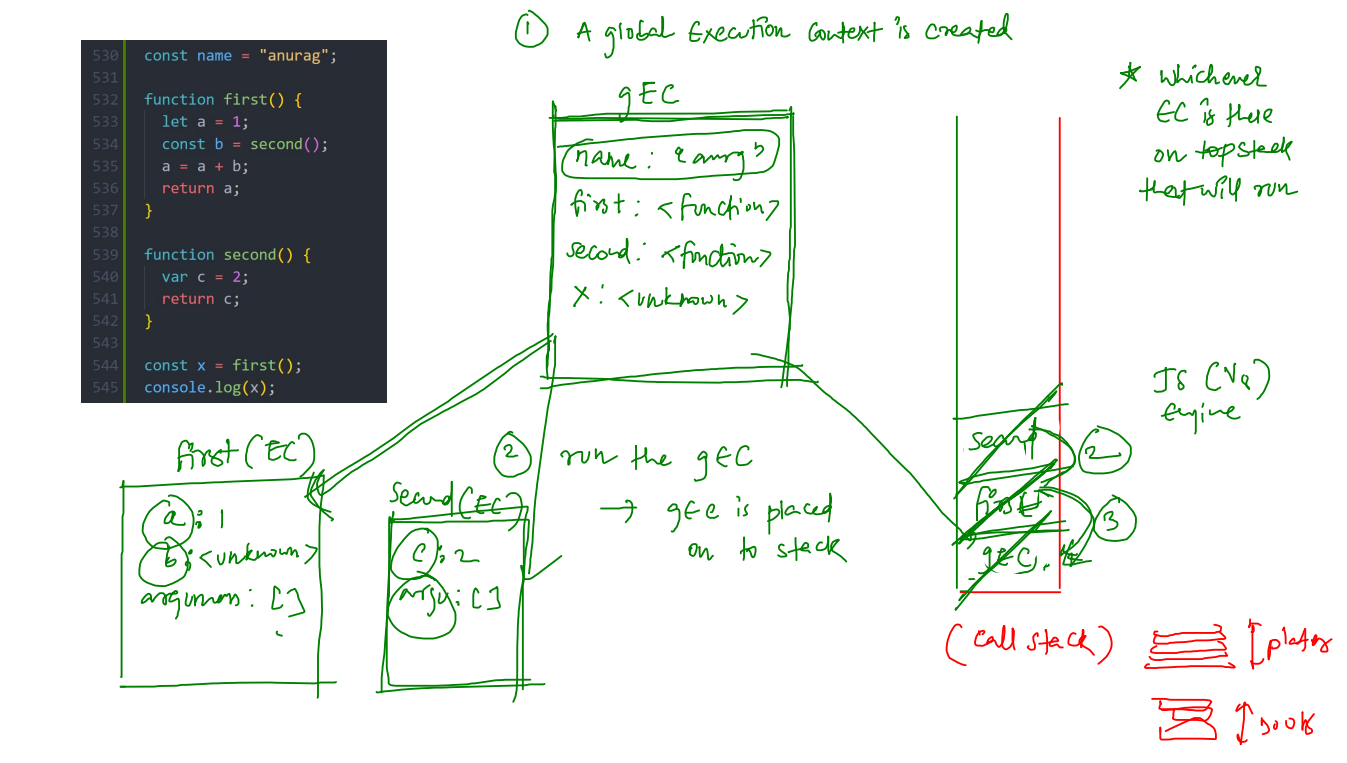
1. shoes
2. earphones
3. iphone



1. variables
   - → let, const, var
   - → function
   - → parameter / argument
2. scope chain

→ only one gEC is created per program

→ EC is created for every function




```
530  const name = "anurag";
531
532  function first() {
533    let a = 1;
534    const b = second();
535    a = a + b;
536    return a;
537  }
538
539  function second() {
540    var c = 2;
541    return c;
542  }
543
544  const x = first();
545  console.log(x);
```

Global scope

```
Const a = 5;
let fname = "asjun";
let year = 2023;
```

→ outside of a function or block

→ They are accessible anywhere in the code.

function scope

```
function CalcAge(year){
    year = year + 1;
    Const age = 2023 - year;
    return age;
}
Const year = 2000;
console.log(calcAge(year));
console.log(year);
console.log(age);
```

reference Error

→ variable are accessible inside the function only.

→ also called as local scope.

block scope

```
577  let year = 1992;
578  if (year >= 1981 && year <= 1996) {
579    const oldGen = true;
580  }
581  console.log(oldGen);
```

reference Error

→ variables are accessible only inside block (if, else, else if, for, while, ~~do while~~)

→ this applies only to let and Const variables

(Twist)

→ (var) is only function scope and not block scoped due to hoisting.