

$$\begin{cases} 2x + 3y = 7 \end{cases} \text{ } \underline{\underline{\text{linear eq}^n}}$$
$$ax + by = c$$

→ Quadratic eq<sup>n</sup>'s root  $\left\{ \begin{array}{l} a = 2, b = 3, c = 7 \\ \underline{\underline{ax^2 + by^2}} \end{array} \right.$

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

roots →  $b^2 - 4ac > 0$

$$\begin{array}{l} \rightarrow \frac{-b + \sqrt{b^2 - 4ac}}{2a} \\ \rightarrow \frac{-b - \sqrt{b^2 - 4ac}}{2a} \end{array}$$

$-b^2 - 4ac = 0 \}$   $\frac{-b}{2a}$

No real roots found.

Math: Ceil

Sqrt

Sqrt      Pow

Math.Sqrt(25)      Math.Pow(25, 0.5)

↓      ↓      ↓

5      no      exponent/power

$\sqrt{25}$   
 $(25)^{\frac{1}{2}}$

Syntax:

function funName (Parameter)

{

function logic

}

funName (Arguments)

Eg: Square } 5 → 25

function Square(num) {

return num \* num;

}

Square(5)      25

Square(10)

console.log(square(4))

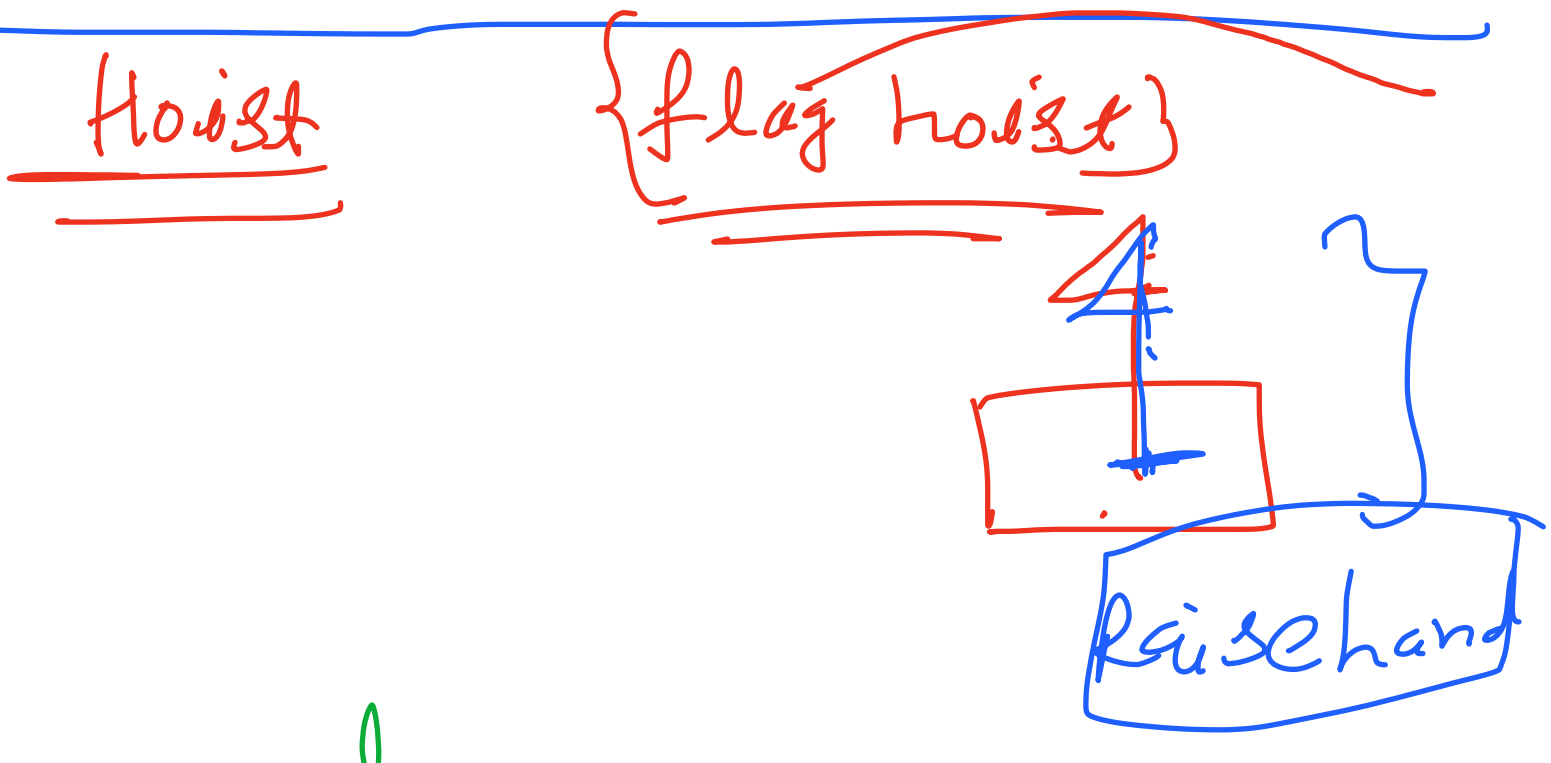
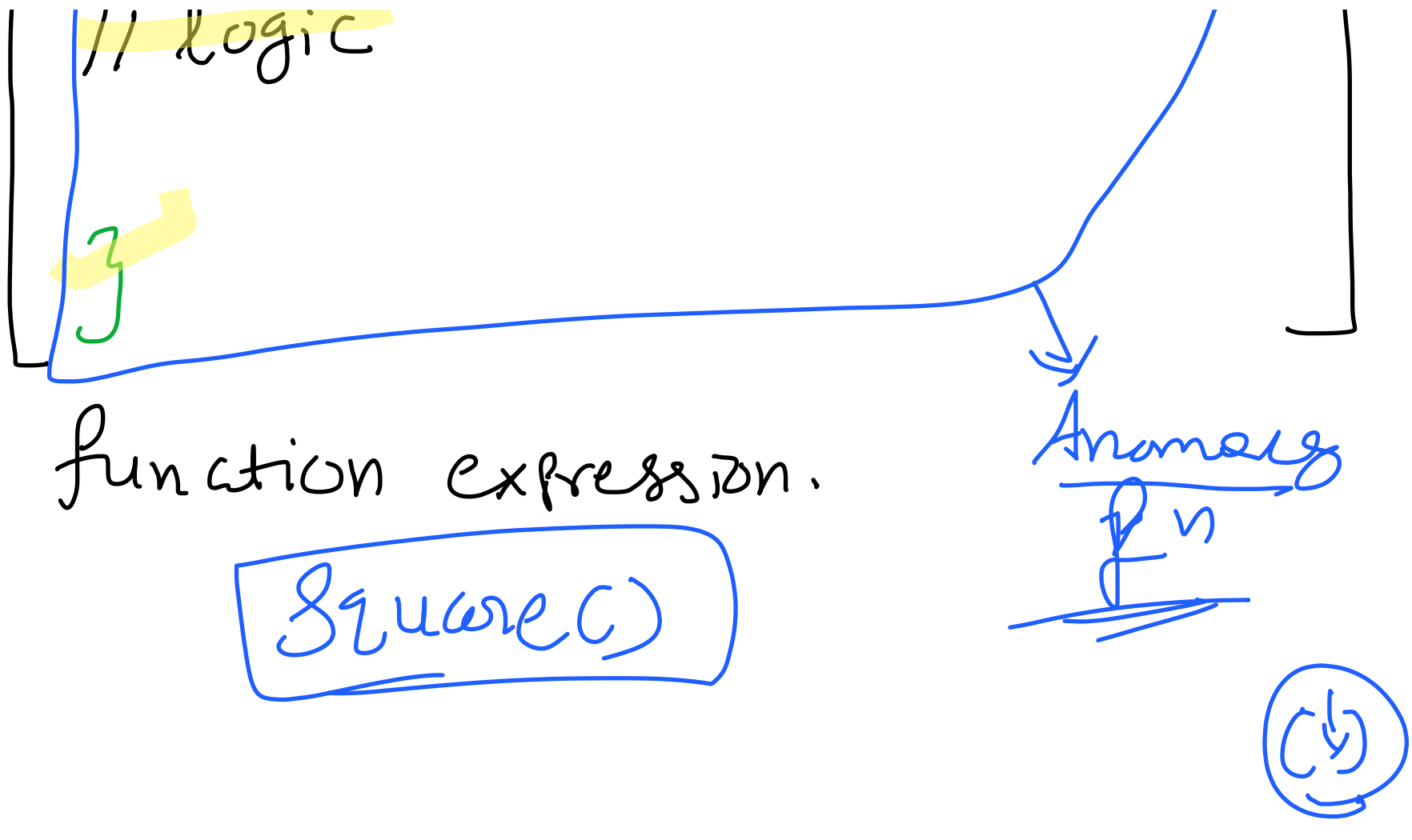
↓      ↳ fun call

console.log(16) ⇒ // 16

Function expressions:-

let square = function() {

↓



Function hoisting:-

You can access fn before it is declared

