Whether the number is a prime number or not? function is laine (x) C // lypic:  $\frac{3}{6\mu} \rightarrow \frac{13}{6\mu} \rightarrow \frac{13}{6\mu}$ ilp -> z= 54
olp -> false

## Let's decipher the logic

How to check if a no. is prime or not??

What type of no.'s one prime??

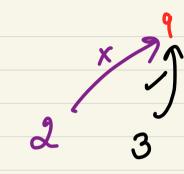
(x=5) (x=11) Primes - are only divisible by 1 or the no. itself



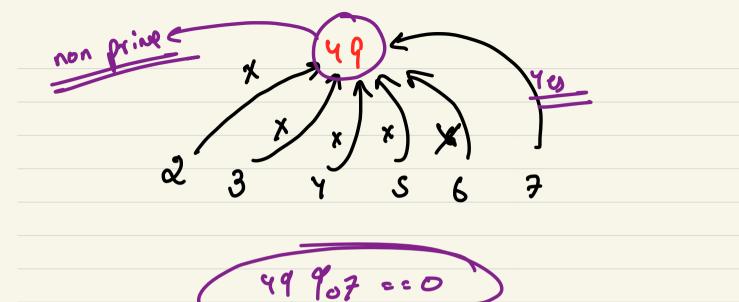
if there is alteast one more no apart from I and a that dividus a completely then a is non-prime.

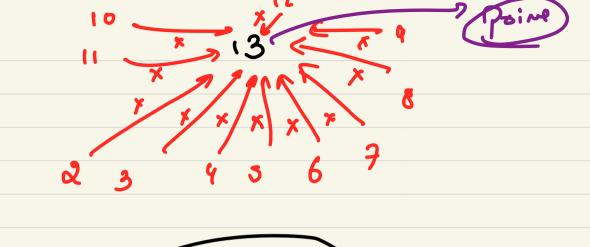
non frim

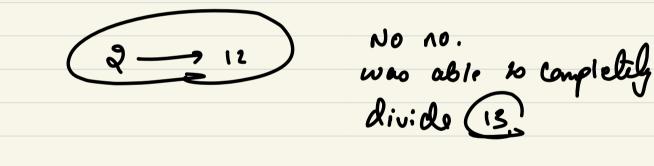
(121.2) -== 0?!

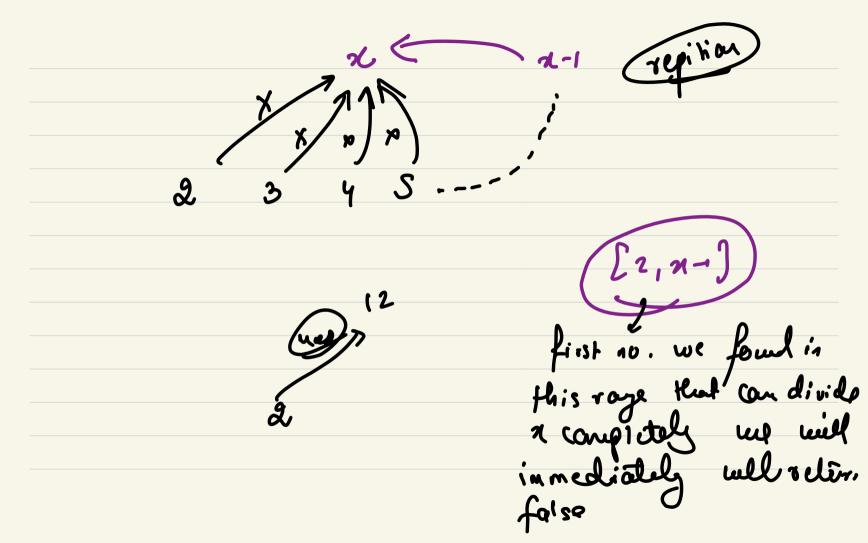












x=7 for (let i = 2 ; i < = x - 1 ; i + = 1) (

if (x ? 0) = = 0) (

// non prime y return false; ie & & K. S

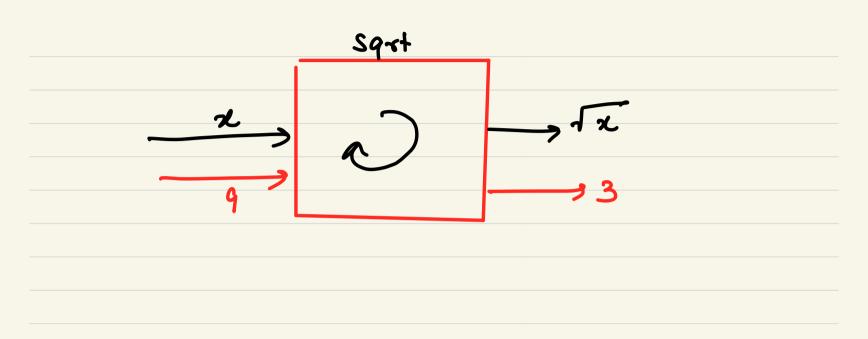
if we exit the loop be without returing false, means no number in range (2, 2, 2) can divide a, hence a is prime.

function istrine (x) ( for (let i=2 ; i<= x-1; i+=1) { if (x % = = 0) { y return false; to us; return

How about a mechanism

on which we can. Princi logue to check if the number is the or not. if (x>1) # situation 1: mistake # situation 2: rep chayed

lo rectify this we have a function is a black box



We have & choices > a) We can create ouer own functions

a) We can consume others functions. (i) built femchion) -> En - Math. sqrt

y = Math. sqrt (9)

Now, if we use fine", then we can store accertage inside a function, and does it matter how many times you want to use it, You well just Call the function.

then we need to ruly once-> y = (f(x)) if we need to charge the logic, we need to charge it only one.

functions in JS

9 this is how we recate
q new function. function my New Function (unput), input2, input3) &

```
Mareate a femerion to check if the no. is even or old
function is Even(num) 1
           if ( num 902 ==0) (
             return trus
          Jelse C
neturn false;
let x = 10;
if ( is Even (x)) C
(msoletog ( "Even");
```

- Why we are doing vetern ?? Can we not use Console. (09 ?? -> what if I don't return anythy from funcing In JS, if you don't manually seturn Somethy, it automatically veturns Undyfred.

(onsole.logo What console = { log: function () { ...} 2 = console.log ("Sanket")

maleud

maleud

function add (z, y)

let c= z+y;

return c; pa let 9 = 10; let b = 20; let result = add (a,30); 3 -> place where Console. 10 q ( result); ) une call the congumets fine