03_08- Problem Solving Function
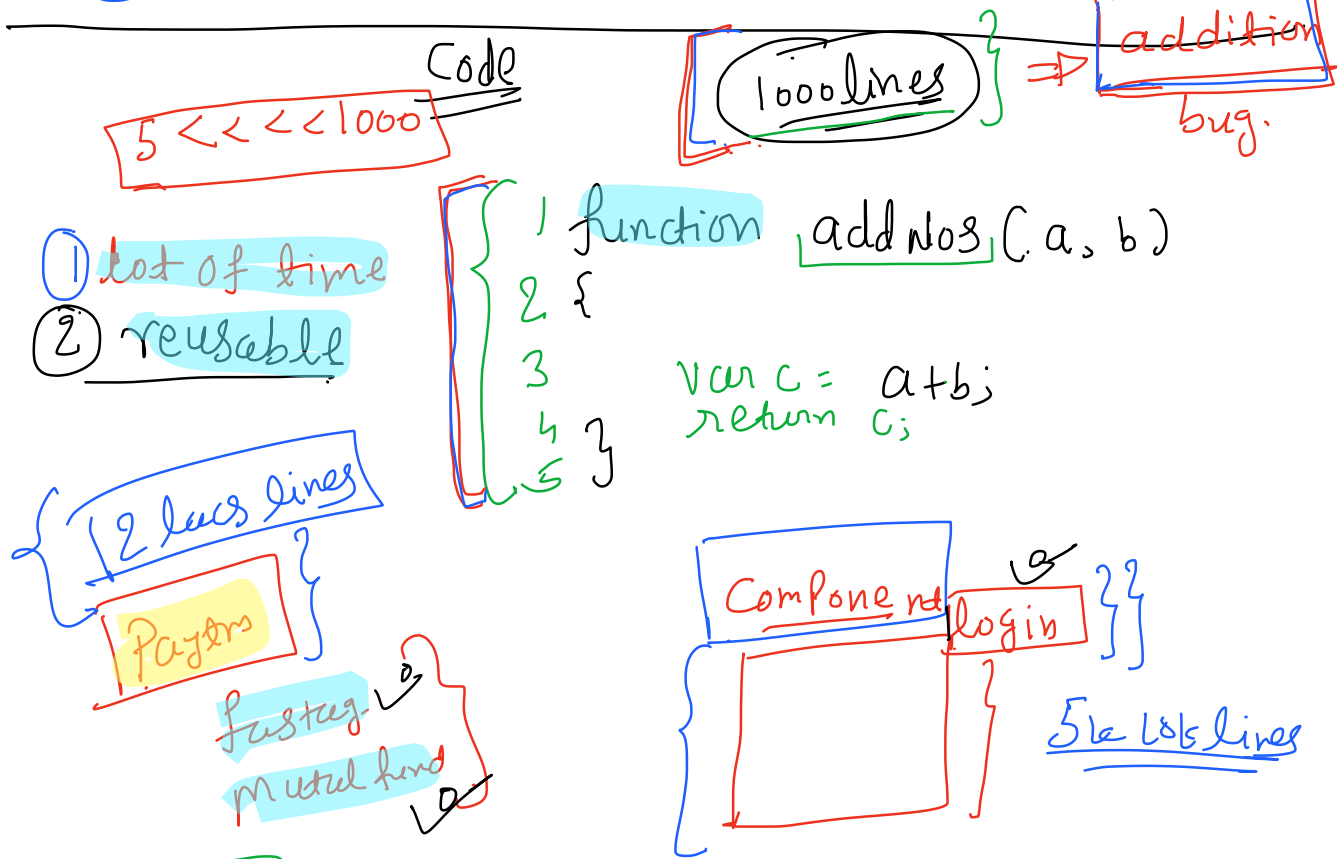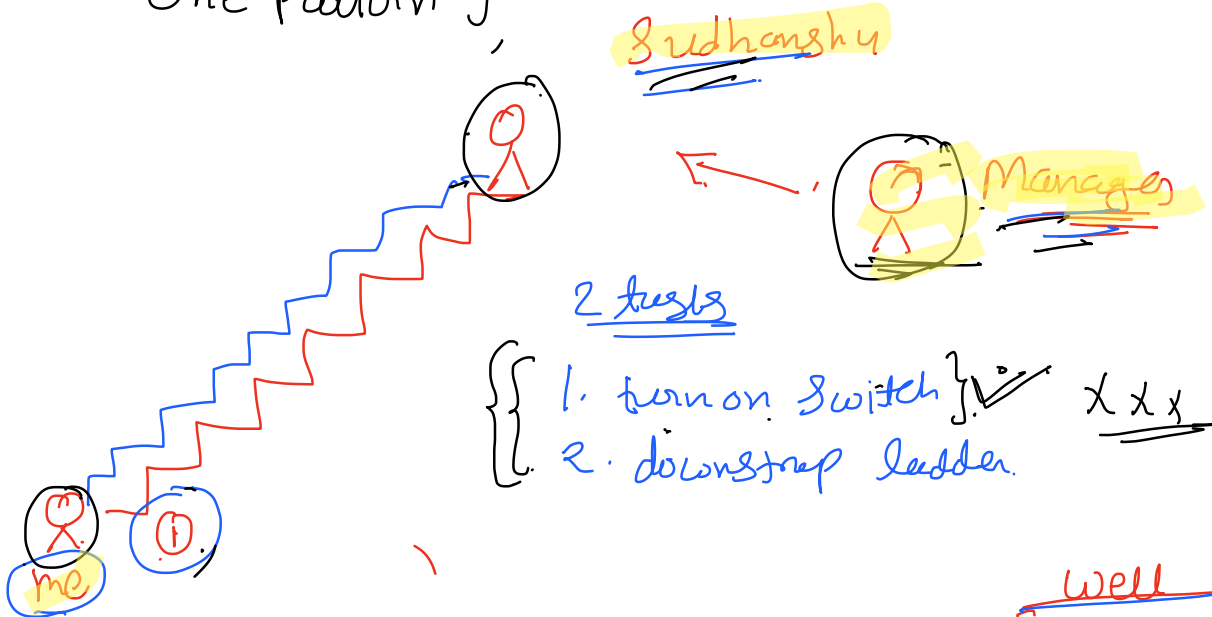
Wednesday, 3 August 2022   8:12 PM

* factorial sum } =D

1. functions } Return

2. fibonacci series } function recurssion.

3. factorial sum }

4. Questions

5- One Pattern }

Sudhanshu

Manager

2 tasks

{ 1. turn on switch } ✓ x x x
{ 2. downstrap ladder.

me

Code

5 <<<<1000

1000 lines } =D Well addition bug.

① lot of time
② reuseable

1 function addNos (a, b)
2 {
3   var c = a+b;
4 } return c;
5 }

{ 2 lacs lines }
Payers

fastag
Mutual fund

Component login }}

5 to lols lines

Proj } } }

User mobile

+91   9898598985   10 digits

+1

+63   Country no.

refactor my mobile no.

Component
function

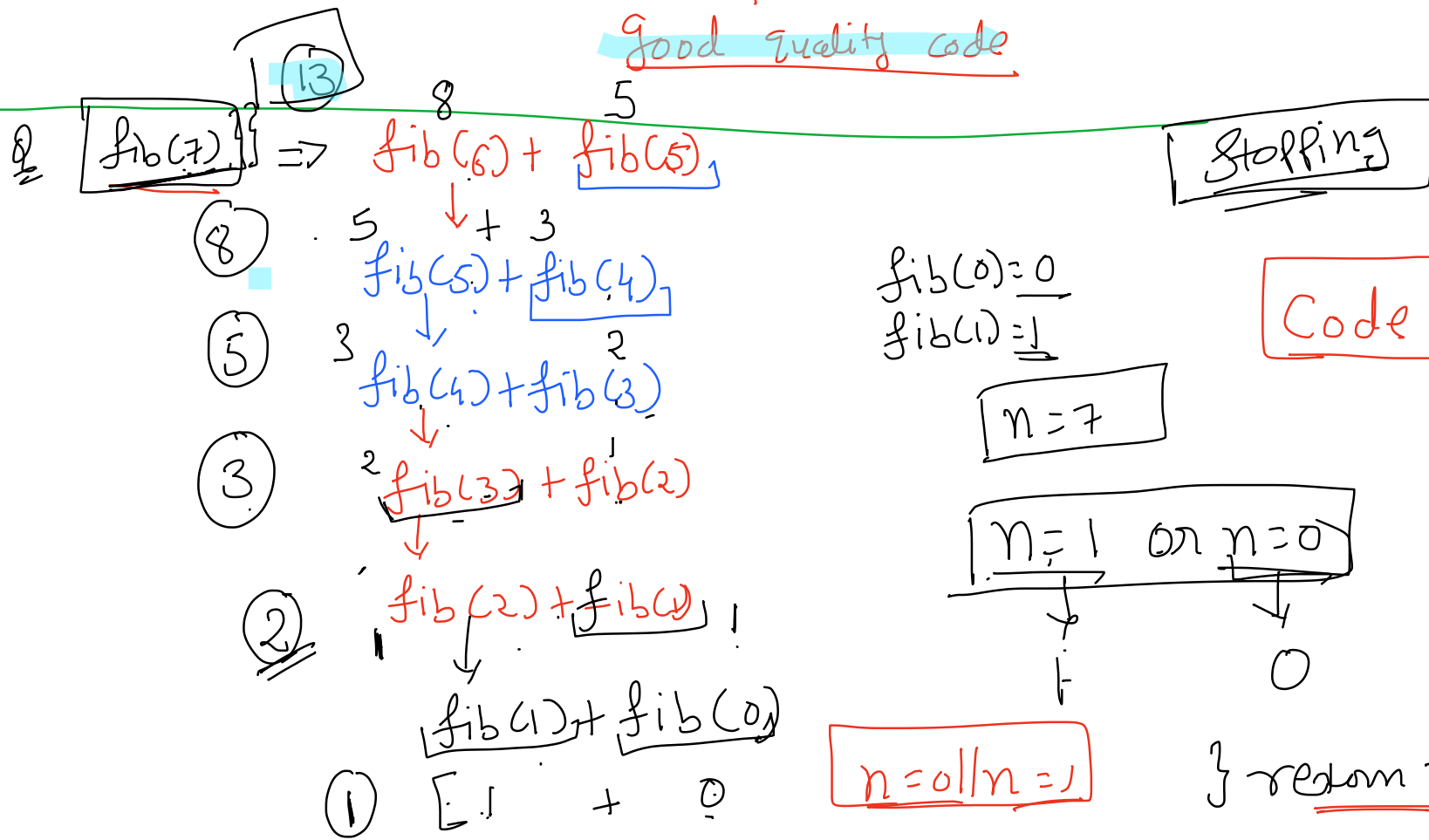{ (+91)-(9898598985) } }

function getPhoneNo (Coutry, mobileno)
{

// logic

return "_____"

↓ bugs   ↓ errors

good quality code

13   8   5

fib(7) => fib(6) + fib(5)   Stopping

8   5   ↓ + 3

fib(5) + fib(4)

5   3   2

fib(4) + fib(3)

3   2   fib(3) + fib(2)   1

2   fib(2) + fib(1)   1

fib(1) + fib(0)

1   [1] + 0

$fib(0) = 0$
$fib(1) = 1$

Code

$n = 7$

$n = 1$ or $n = 0$

1   0

$n = 0 || n = 1$

{ return n;
base Condition

0
1

} return n;

from 1 and 2. Starting from 0 and 1, the next few v

0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, ...

0 1 2 3 4 5 6 7

coming

$0! => 1$

```
// function fact(n){
//     //A function which is calling itself => Recurssion
//     if(n==0){
//         return 1;          } base
//     }                        Condition
//     else{
//         return n * fact(n-1)
//     }
// }
```

Recurssion :- factorial   (!)

$7! => 7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1$

$n! => n(n-1)(n-2) \cdots \cdots \; !$

$6! => 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1$

$7! => 7 \times 6!$

$n == 0$
↳ 1
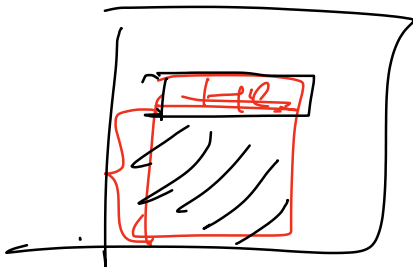
base condition
or
Stopping Condition

$$n! \Rightarrow n \cdot (n-1)!$$

function fact(n)
{
    // base
    n & fact(n-1)
}

Assignment }

3 Pages

Samrat → heading.

Sudhanshu → 1 Pages

Sudhakar → 2 Pages

2340 / 60

1   0

0 → x %60

x => 3, 4, 5

num

2567

40	10	200
	5	
2		

4 2.

2567

60

10

4 && 5   last

→ 0

390

2340

60

10

35

35 × 60 = 2340

& 3

60

even   3

B % 3

33   6 8   Sum divisible by 3 = 20

6   27   9   %3

240

2340

60

240/10

(-60) %%

1. last → 0
2. second → even/o
3. sum of digits ✓ ③

3.7

| Sum of digits |