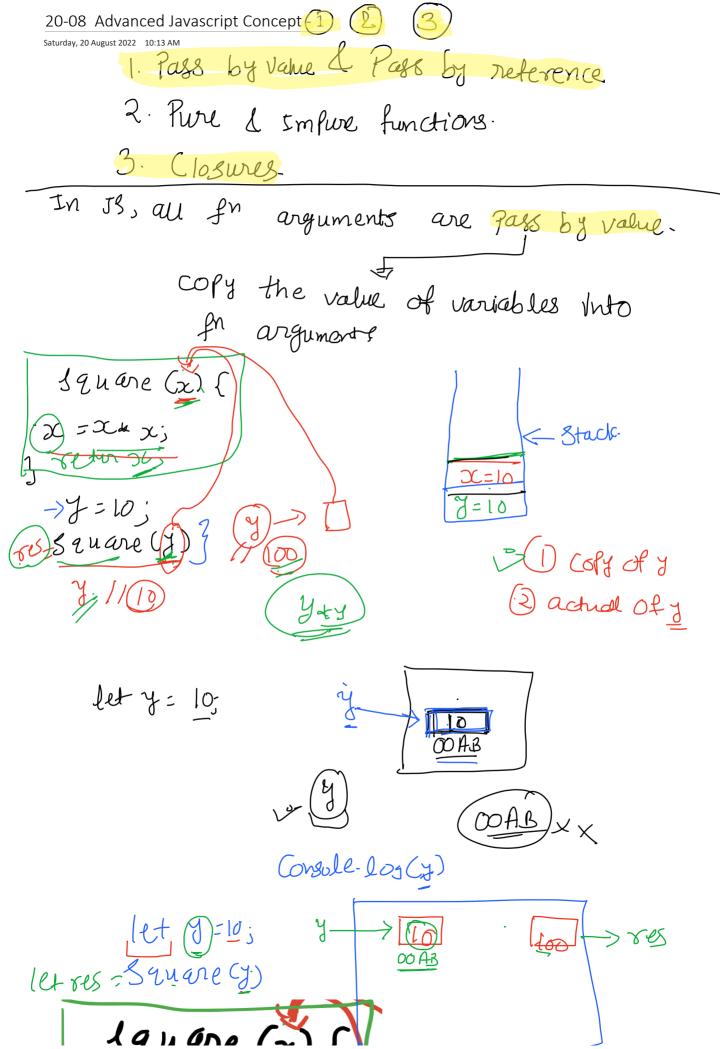
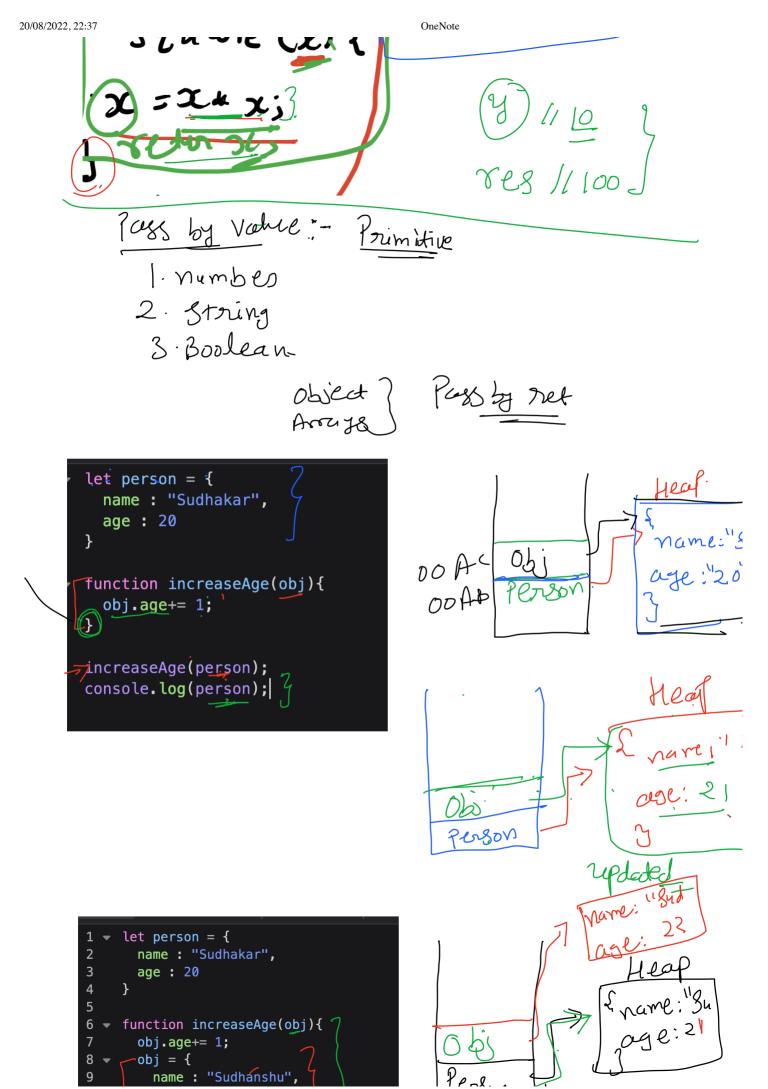
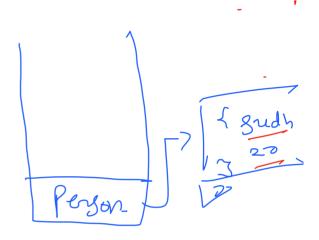
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```
age : 22
10
11
     1 con. log (obi)
12
13
     increaseAge(person);
14
15
     console.log(person);
```

```
let person = {
  name : "Sudhakar",
  age : 20
function increaseAge(obj){
  obj = {
    name: "Sudhanshu",
    age : 22
 obj.age+= 1;//
console.log(obj) 3
increaseAge(person);
console.log(person);
```



Pure In & Impure In

- Impure.

 (1) unpreditible.

 (2) Has side effects

```
function add1(x,y){
  let rand = Math.random() * 10;
  return x+y+rand;
                                          unfreditible-
console.log(add1(2,2))
// Math.random() generate random
number between (0,1]
// if i multiply with 10 => generate
no between 1 to 10
function add(x, y) {
     return x + y;
console.log(add(2, 2)); // 4
```

```
var globalVar = 1; //
function add(x,y){
 globalVar=0;
  return x+y+globalVar;
console.log(add(2,3))
function printGlobalVar(){
  console.log(globalVar);
printGlobalVar()
```

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```
let mutateNum = 0;
const impureFunction = (num) => {
   return (mutateNum+=num);
console.log(impureFunction(5)); //
console.log(impureFunction(5)); //
console.log(impureFunction(5)); //
console.log(impureFunction(5)); //
```

of Chosing ?

Closures ;=

```
// Nested function
function greet(name){ // John
    function displayName(){
       console.log(`Hi ${name}`)
   displayName()
}
greet("John");
                                  Errors Warnings Logs Info Debug CSS XHR
function greet(name){ // John
  function displayName(){
    console.log(`Hi ${name}`)
                                     function greet(name){ // John
function displayName(){
  console.log(`Hi ${name}`)...
let g1 = greet("John");
console.log(g1);
g1();
  debugger;
   function x(){a}
     var a = 7;
       function y(){
          console.log(a);
      a = 100;
       return y;
   var_z = x():
   console.log(z);
```

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```
z()()();
   IIFE => Immediate invocation of function execu
```