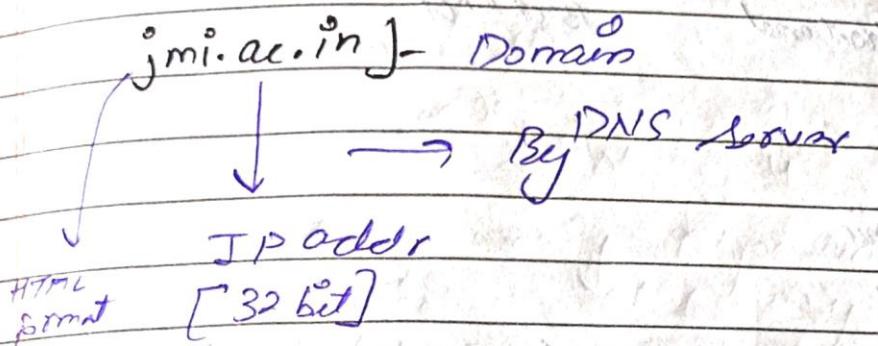
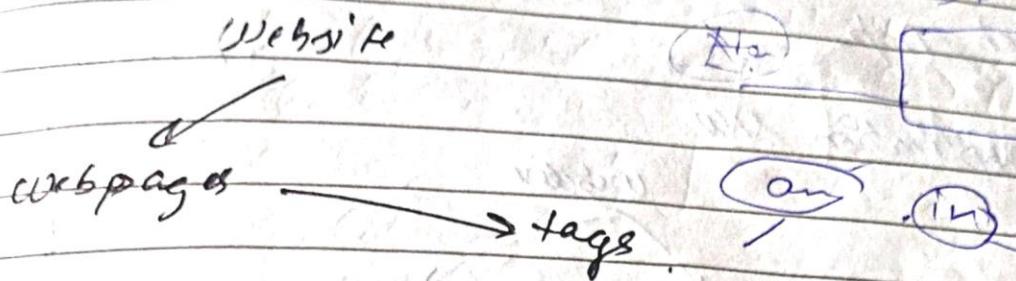


A₂ > A₁ > A₃

D₁



Web development

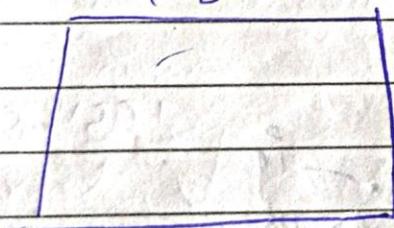
- └ Webpage
- └ Structure

C.S.S (Cascading Style Sheet)

RGB → 0-255 (8bit)
 ↓
 0-255 0-255
 (→ 256³ → 1G (1 million))

1280

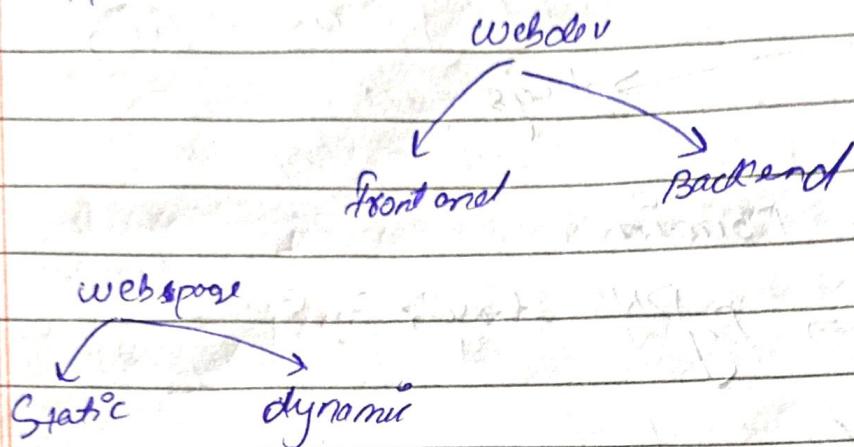
1920



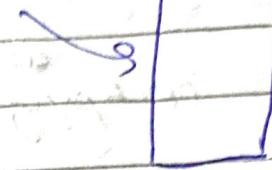
Amazon.com

Web App.

→ Application S/W

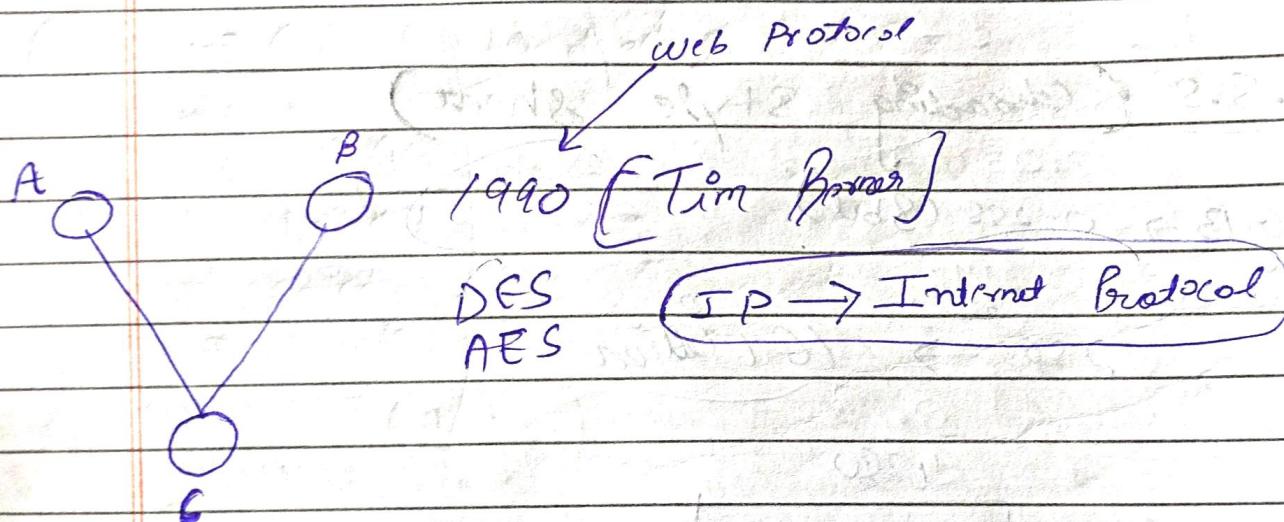


JSP

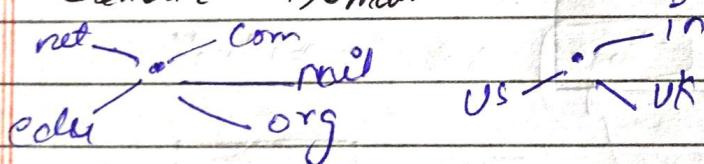


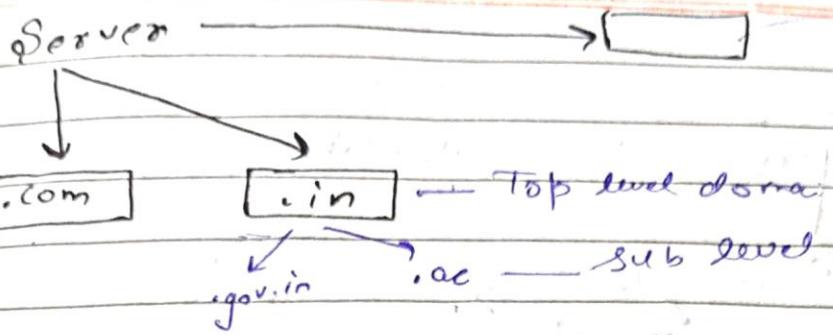
HTML (Hyper text markup language)

http & https



* Generic Domain





IETF → it maintains 130 root level servers
 ↓
 Root Tokyo

To find site IP → Dom (DNS Reverse)
 ns look up → google.com

Target User

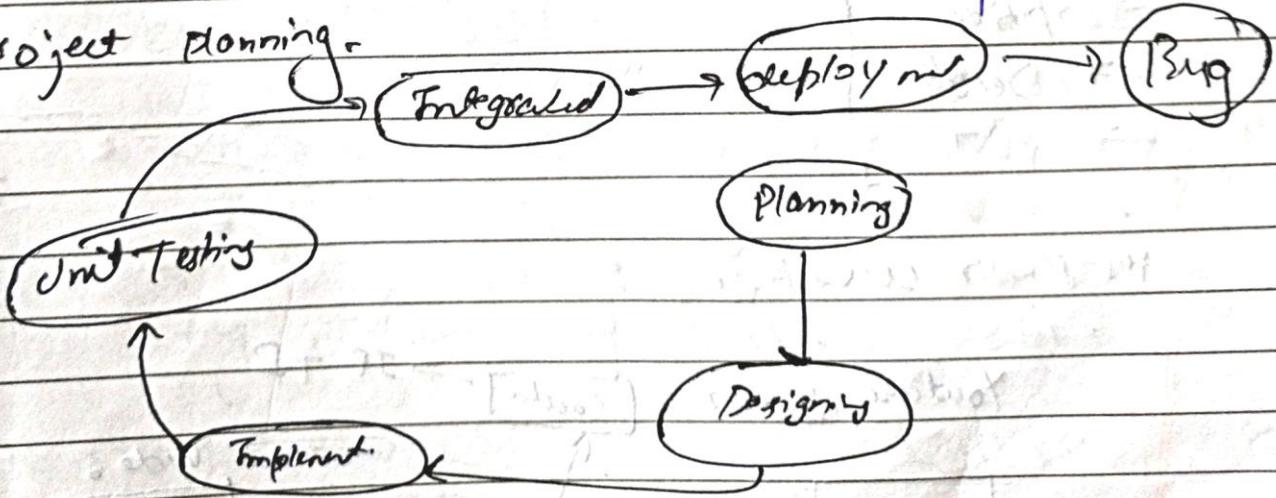
- Demographic factors
- geographic
- professional
- PWD.
- Age Group.

Web team

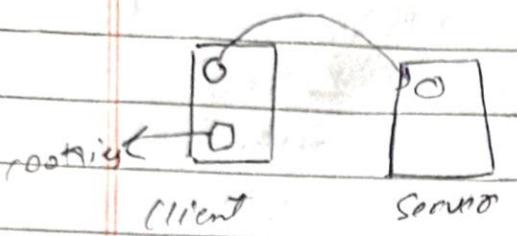
- Project Manager
- front end
- Data base Administration
- Back end
- full Stack
- UI/UX designer
- SEO specialist.

*

Project planning



DNS, HTTP



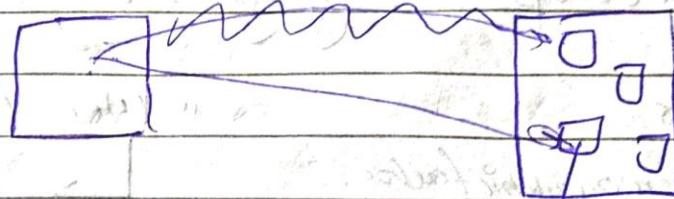
HTTP

1.0

→ Standard protocol (doesn't store protocols)

1.1 → Persistence protocol.

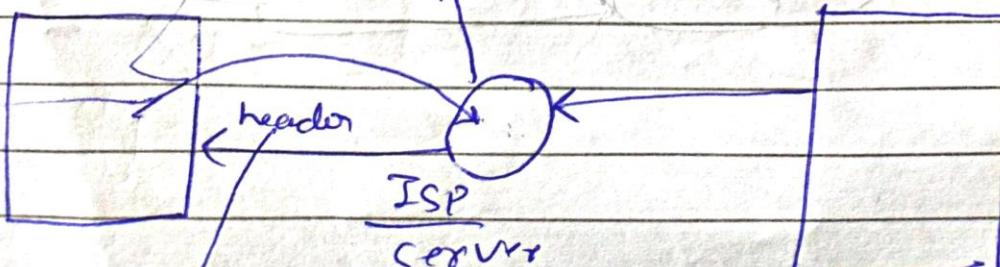
→ Non-persistent.



- GET
- PUSH
- TRACE
- POST
- option
- Delete
- PUT

HTTP → Working :-

Youtube Server → IP + F



meta data

local Cache

Client

Unit - 2nd

PAGE NO.	/ /
DATE	/ /

HTML (Hyper text Markup Language)

Test.html

↓ Data flow

html >

head >

</head>

body >

</body>

</html>

More data

headers

title - (UTF-8)

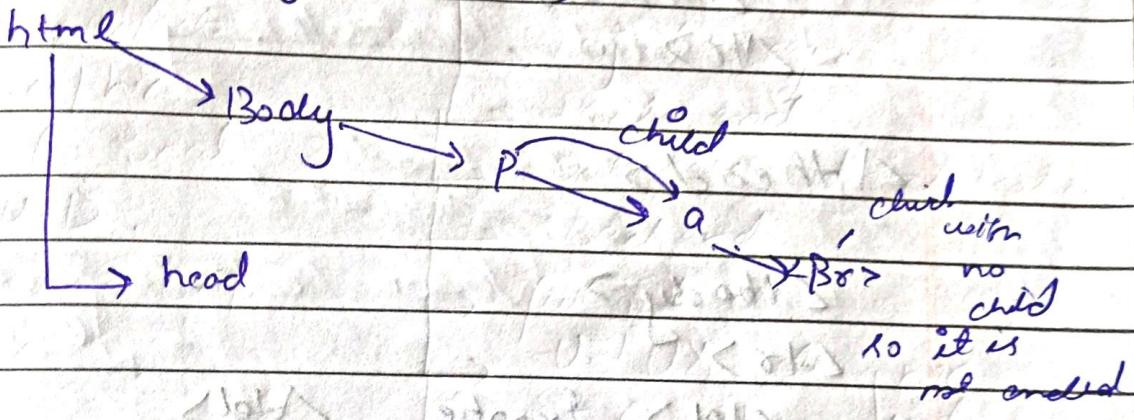
language

</html>

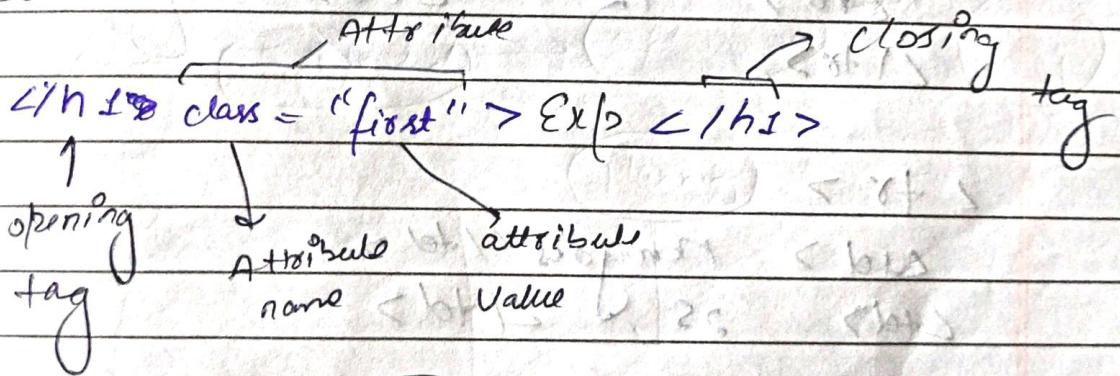
↑

forward stack

DOM (Document object model)



HTML Element :-



< strong > → SEO

< img src = " " alt = " " >
Relative → absolute

* Table

Food Menu

Items	Price
Frootie	12
Mangoes	25
Total	37

Table > Caption > Food Menu (Yafetson)

<thead>

<tr>

<th> Item </th>

<th> Price </th>

</tr>

<thead>

<tbody>

<tr>

<td> Frootie </td>

<td> 12 </td>

</tr>

<tr>

<td> Mangoes </td>

<td> 25 </td>

</tr>

</tbody>

</table>

④ </tr>

<td> Total </td>
 <td> 37 </td>
 <td>

</tfoot>

<table> .

<thead> → header wrapping
 <tbody> → body wrapping
 <tfoot> → footer wrapping

Item	Price	
	USD	INR
Mango	0.78	12
Banana	0.65	25
Coke	0.70	50

R G B → RED = ₹ 100.00
 ↓ ↓ ↓
 8 8 8
 0-255 0-255 0-255

* XML (Extensible markup language)

→ data
 → content

<Info>
 <name> Syed </name>
 <age> 58 </age>
 <salary> 100.000 </salary>
 <Info> .

Name : Syed It is case sensitive
Age : 58
Salary : 100.000

Q Why we don't use XML instead of HTML?

Use of XML → Data Designing
→ Framework Control

Q What is framework & library and their differences?

Assignment #2
Personal Website.

→ Simple.

→ Social media.

→ distributed

Github → Version Control System

Conditional

(i) if(expression){
 (a+b)/2 == 0);
 // logic
 3.

PAGE NO.	11
DATE	

for (var i = 0; i < 10; i++) {
 console.log(i);
 3.
 l = [2, 5, 3, 2]

(ii) if(expression){
 // logic
 3.
 else{
 3.
 3.

Q. Write a program in Javascript
 to find Armstrong no?

(iii) switch (Var) {

case 0: // logic
 break;

case 1: // logic
 break;

default:

// exist logic
 break;
 3

1. loop.

var num = prompt;
 var num = 134;
 varnum = 0;
~~varnum~~
 function checkarm(num){
 digit = math.floor((num%10))
 armnum = armnum + digit
 armnum
 armnum = armnum + math.cube(digit)
 num = num / 10;
 3

var num = 134;

varnum = 0;

function checkarm(num){
 while (math.floor(num))

{

digit = math.floor(num%10);

armnum = armnum + math.cube(digit);

num = math.floor(num / 10);

3

person = {

name: "Syed"

age: 100

3

if (column == num) {

return true;

}

else {

return false;

}

}

str = "\$&

str = "\$A,"

To remove special character from string
To generate a string

objects and methods

str.length = }

str.size = }

str.charAt = }

str.substring = }

{ key : value }
key : value }

p = { 2 : "Ameen", 5 : [2, 5, 6] }

array

pkd

for (i in p) {

print(i);

}

(1) To reverse string

function revString (str) {

let reversedStr = "";

for (let i = str.length - 1; i >= 0; i--) {

reversedStr += str[i];

}

return reversedStr;

}

let str = "Mohd Kaif";

let reversedStr = revString (str);

console.log (reversedStr);

output :- fakt_dhort

(2) To remove special character.

function extract (str) {

let extractedStr = "";

for (let i = 0; i < str.length; i++) {

let charCode = str.charCodeAt(i);

if ((charCode >= 65 & charCode <= 90)

|| (charCode >= 97 & charCode <= 122)) {

extractedStr += str[i];

return extractedSto;

3

let str = "Kaif@123";

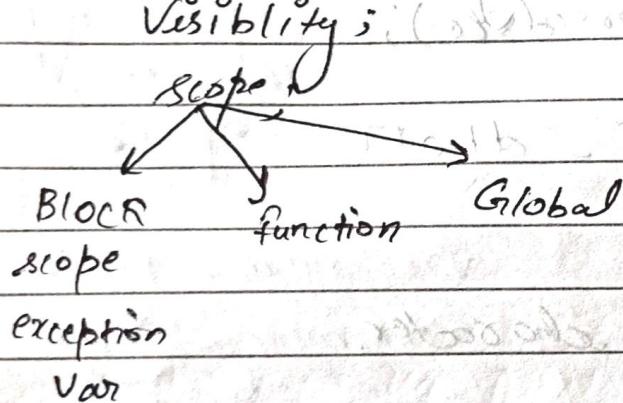
let newStr = extract(newStr);

console.log(newStr);

Output:- Kaif.

(NaN)

function :-



function sort(arr)

{

let temp = 0;

for (let i = 0; i < arr.length; i++) {

if (arr[i] < arr[i + 1]) {

arr[i + 1] = arr[i];

Page No.	
Date	/ /

for (let $j = i + 1; j < \text{array.length} - 1; j++)$

{

if ($\text{arr}[i] > \text{arr}[j]$)

{

temp = $\text{arr}[i]$;

$\text{arr}[i] = \text{arr}[j]$;

$\text{arr}[j] = \cancel{\text{arr}[i]} \& \text{temp};$

{

{

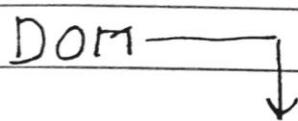
{

return arr; }

console.log (Sort([1, 2, 8, 3, 9, 0]));

[0, 1, 2, 3, 8, 9]

DOM (Document object Model)



Element Selector .

`document.getElementById ("Id");`

`document.getElementsByClassName ("Class Name");`

`document.getElementsByTagName ("Tag Name");`

Recursion :-

for function num (Parameter) {

if (Parameter) {

{

else { break; }

`num("c");`

{

function factorial(x) {

 if (x < 2) {

 return x;

 }

 else {

 function = ...;

 sum = sum * function(x-1);

 }

(i) Tail recursion

(ii) Head recursion

(iii) Tree Recursion

(iv) Direct "

(v) Indirect "

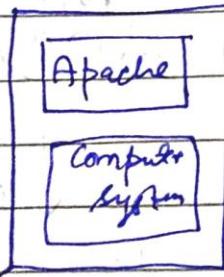
Assignment No: 2

- (1) Discuss clipping in 3D space with respect to Culling?
- (2) What is parallel projection and perspective projection in 3D dimension?
- (3) How does the 3D transformation pipeline differ from the 2D transformation pipeline explain with proper steps?

* AJAX (Asynchronous Java Script & XML)
 JSON (Java Script Object Notation)
 PORT NO:- 8800

* Web Server :-

functionalities .



(i) hosting Website .

(ii) Error handling .

(iii) load balancing .

(iv) handle dynamic Content

(v) handle Security

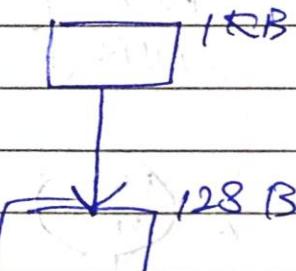
• Caching .

• Gzip Com pression .

• handle https request .

AA BBBB CC C

↓
2A 3B 4C

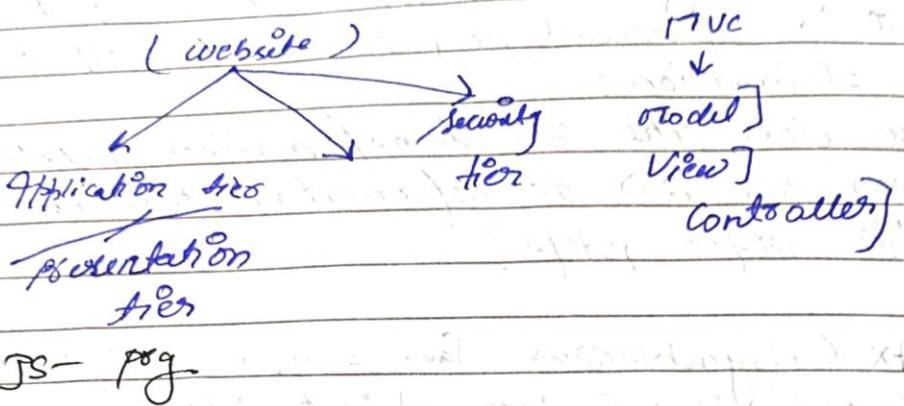


* Apache Web Server .

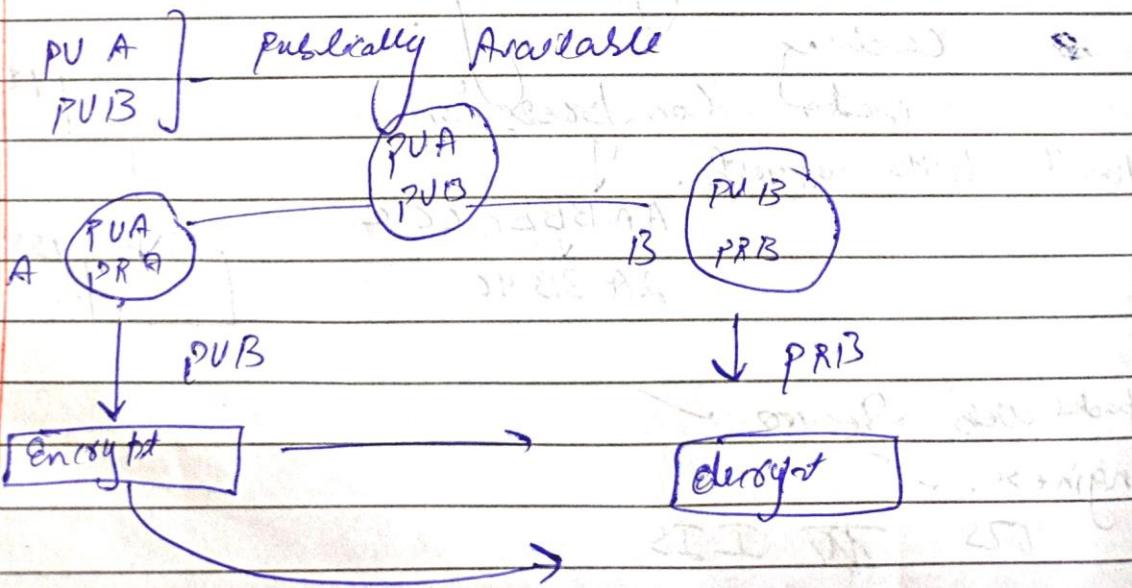
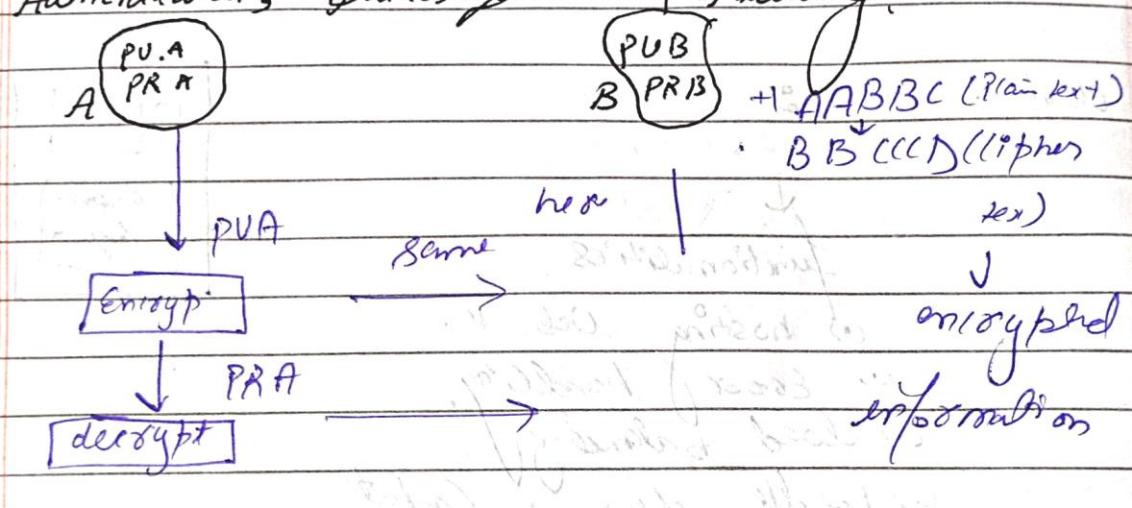
engine .

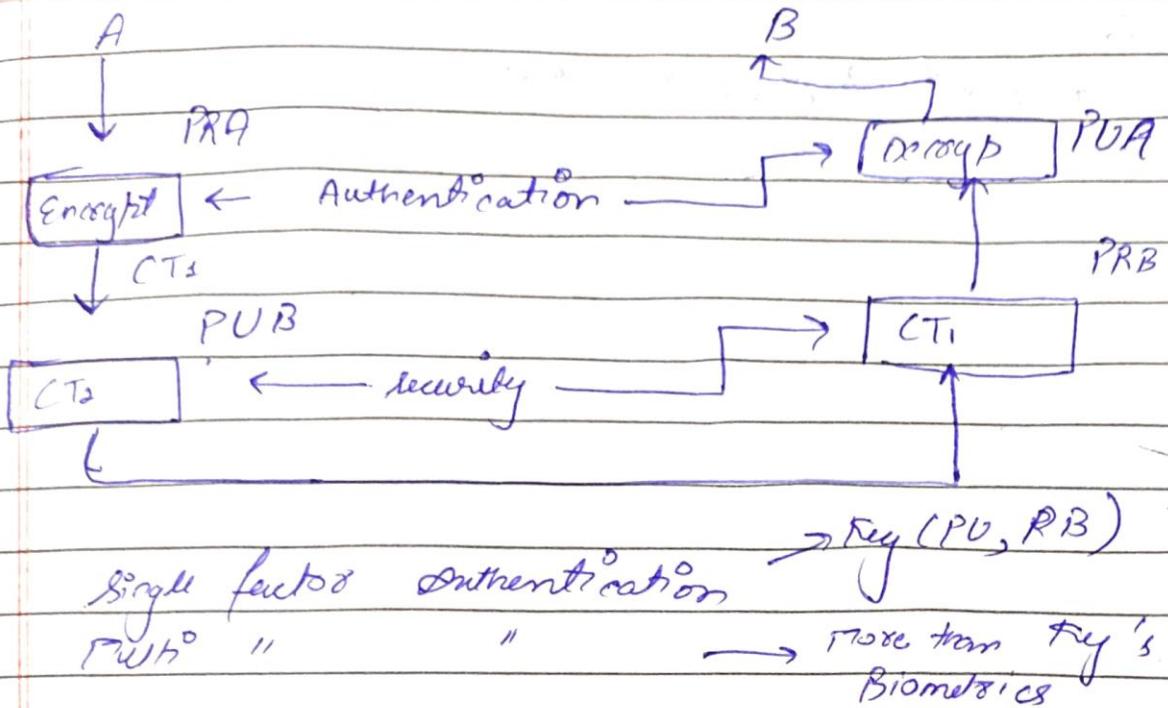
OS IIS

Realtime Architecture.

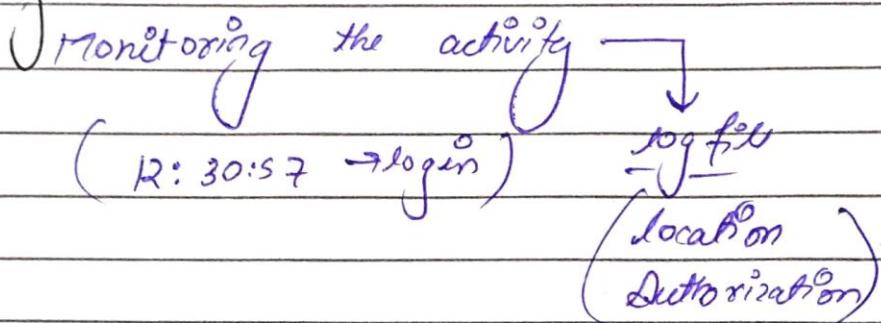


Authentication, Authorization & Auditing.



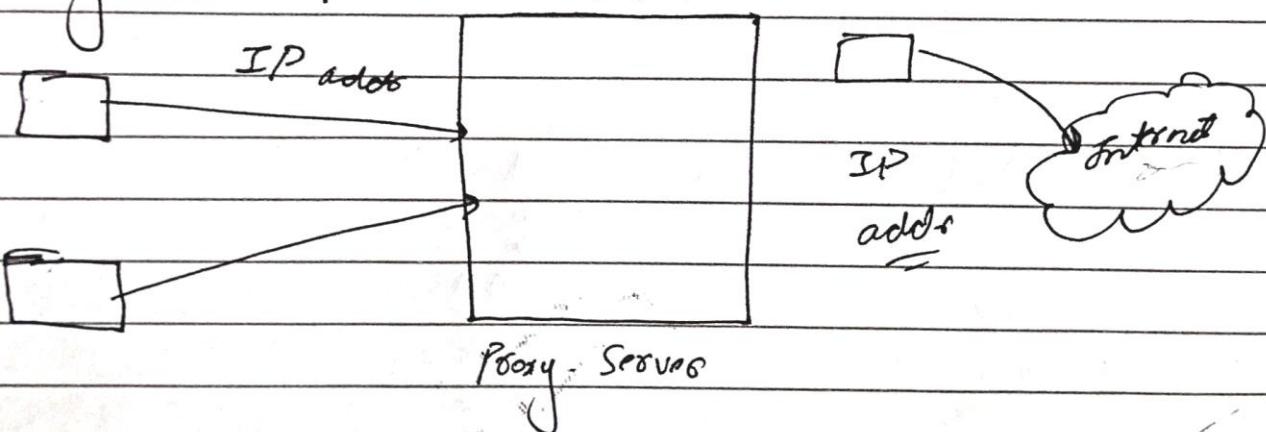


Auditing



Accountability

Proxy Server



Proxy server refers to the server that acts as an intermediary between the request made by clients and a particular server for some resources or request for some resources.

VPN

Virtual Private Network ~~Apples~~