**Lecture-1**

You can use a desktop application now using HTML. You can also use the functionality using JavaScript to minimise or maximise the page.

**REACT**

In react we can optimise the page within a less time. It is a frontender side server. React create a rapper of html css js with the help of her jsx.

You know that front end code is visible up but the back-end code is hidden.

**NODE**

Node is a back-end server side framework.

We write the code at a server side.

JavaScript runtime environment.

**Example: -**

Form fill-up

User can see the data while filling the form.

What you fill in the form it goes to the back end and stored in a database and also it may be or may not be stored.

The data transfer from front end to backend, to store the data we need a database.

We can’t store the data in code.

Code is running on ram.

If we take a example like that you are working on notepad so it runs on ram.

In Ram there are two types of memory

1. Static Memory
2. Heap Memory

**CRUD:** Create Read Update Delete

**indexes make our queries faster**

**Code in python**

matrix [m][n]

for column in n:

print(matrix[0][column])

**code for c++**

for(int i=0;i<n;i++)

{ cout << matrix [O][i] }