**Day 3**

**Mongo DB**

Mongo DB is schema less. Schema is known as logical entity or table.

In RDBMS we need to define schema ie table structure

Table name -🡪 Product

Pid🡪int, PName🡪varchar(10),price 🡪 float etc

Creating mongo db collection with schema base ie validation while creating collection.

Node JS:

1. Node JS is known as run time environment for JavaScript or JavaScript library or JavaScript framework.
2. Before Node JS to run JavaScript we are/were depend upon browser. The JavaScript which run on browser is known as client side JavaScript. Before Node JS we want to develop server side program we are/were depends upon other technologies like Java with spring boot, .net, php, python with Django etc.
3. Using Node JS we can develop server side programs or application like java or python.
4. Node JS provided lot of modules which help to develop server side programming. Using Node JS we can do file handling program, we can connect to database like mysql or mongo db etc, we can create rest full web service, we can create security related programs.
5. After node JavaScript also known as client side as well as server side programming language
6. **Node js provide asynchronous and callback non blocking io operation.**

To verify node installed or not

Open the command or terminal and write below command as

**node --version**

Node terminal ie REPL (Read Eval print Loop).

There is no BOM as well as DOM in node js.

Node js provided one the pre defined global object is console.

This object contains log function which help to display the output on console.

Node JS modules

Module is a collection of function, variable and classes.

In node js modules mainly divided into 3 types.

1. Core module
2. External module or third party modules
3. User defined or custom modules

**Core Modules :**  by default node js provided lot of pre defined modules with node js run time environment.

1. fs module
2. os module
3. path module
4. http module

etc

we need to load the modules

using ES5 style (old style)

var referenceName = require(“moduleName”);

**FS module:** It is a type of core module. Which provide set of function which help to do file handling program in synchronous and asynchronous manner.