**Node JS**

Node JS run time environment for JavaScript program or library or framework.

Before Node JS if we want to run any JavaScript program we are/were depending upon HTML page. To run JS we need browser environment.

But After Node JS we can run JavaScript program outside browser environment.

Before Node JS JavaScript was known as client side scripting language. But after node js JavaScript also known as client side as well as server side scripting language.

Client Side Application Server side application

Java (Spring boot)

Asp.net

Php

Python with Django

Node JS

Etc

Open command prompt or terminal

node

it open REPL (Read Eval print and Loop)

Node JS modules

Modules is a collection of variable, function, classes or interfaces.

Modules mainly divided into 3 types.

1. Core module : these modules by default available with node js software.
2. External module or third party modules ; which we need to install using npm or npx command.
3. User defined module or custom module

Node Js provided lot of third party web module which help to create server side program using Node JS.

**Web Service**

Giving the service for web application when both application running using different technologies.

1. SOAP Web Service

Simple Object Access Protocol :

SOA

We need to consume and produce data only in the form of XML.

SOAP message structure

1. Rest Full Web Service

In Rest full Web service we can consume and produce data in any format base upon client requirement like json, xml, plain text, html or any mediate type.

Java req

App1 XML/JSON App2

Java python

Python res

React JS Express with Rest API