**What?**

Node.js is an open-source and cross-platform server-side JavaScript runtime environment.

Node.js runs the V8 JavaScript engine written in c++, the core of Google Chrome.

It is written in c, c++ and java script.

**Run-time Enviroment:-** is the environment in which application or program is executed.

**Run-time:** runtime system is a software program that is designed to aid in the execution of computer program while its running.

Run-time system acts a gateway to the for the **runtime environment**, which is abstraction of the underlying system a program is running on.

**Why?**

it's mainly used to create web servers - but it's not limited to just that.

It mostly used for the making API. So that we can connect client and server side.

But node can also make website.

**When&Where?**

**How?**

**Introducing asynchronous JavaScript**

Asynchronous programming is a technique that enables your program to start a potentially long-running task and still be able to be responsive to other events while that task runs, rather than having to wait until that task has finished. Once that task has finished, your program is presented with the result.