



WAP INSTITUTE

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NODE.JS

SETUP

1. INSTALL NODEJS

<https://nodejs.org/en/download/>

2. INSTALL NODEMON

Open cmd and type

npm install -g nodemon

EXAMPLE TO WRITE A FIRST CODE IN NODE.JS

1. Open a text editor and write

```
console.log("Welcome node");
```

2. Save on desktop test.js

3. To run this file open cmd and write

```
cd desktop
```

```
node test.js
```

API

APPLICATION PROGRAMMING INTERFACE

DEFINITION

Api is a special way of writing code to send or receive data

AN API CONTAINS OF THESE CODES

1. Your operations
2. Response headers (status code, content type)
3. Response in json or xml format

TYPES OF APIS

1. SOAP API : RESPONSE IN XML FORMAT

```
<response>
  <name>er saurav</name>
  <salary>1000</salary>
</response>
```

2. REST API : RESPONSE IN JSON FORMAT

```
{
  name: "er saurav",
  slaray: 10000
}
```

In nodejs we follow apis algorithm to perform some task and operations that means you have to implement these code

1. Your operations
2. Response headers (status code, content type)
3. Response in json or xml format

MODULES

The module is an external page of JavaScript that contains methods and properties for certain types of tasks. nodejs has so many modules for doing certain types of works

HTTP MODULE

To create a server use http module

TO USE HTTP MODULE IMPORT HTTP MODULE FIRST

```
require("http");
```

HTTP MODULE METHODS (FUNCTIONS)

1. `createServer(callback)`
2. `listen(port, callback)`