Node JS:

- Install Node js on local VM.
- Create 2 API's running on ports 6080 and 7080 with mesaages "Hello Node JS" and "Node JS installed successfully" respectively.
- Install pm2 tool and create 4 clusters of bothe Node's.
- Delete all 4 clusters one-by-one

Node js and node package manager (npm) are installed on local VM with commands:

Sudo apt install nodejs

Sudo apt install npm

```
Setting up nodejs-doc (10.19.0~dfsg-3ubuntu1) ...

Setting up nodejs (10.19.0~dfsg-3ubuntu1) ...

update-alternatives: using /usr/bin/nodejs to provide /usr/bin/js (js) in auto mode

Processing triggers for libc-bin (2.31-0ubuntu9.2) ...

Processing triggers for man-db (2.9.1-1) ...

bijay@batman:/usr/local$ node -v

v10.19.0

bijay@batman:/usr/local$ npm

Command 'npm' not found, but can be installed with:

sudo apt install npm

bijay@batman:/usr/local$ sudo apt install npm

Reading package lists... Done

Building dependency tree

Reading state information... Done

The following additional packages will be installed:
```

Then we created a directory named Reactnode for this assignment,

Mkdir Reactnode

Cd Reactnode

Inside the directory, a file, index.js is created with sample code,

Nano index.js

By using the command 'cat index.js', we can view the content of index.js file.

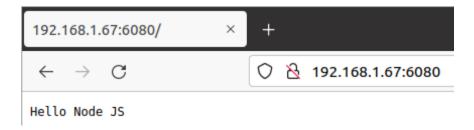
When running the index.js file with node command:

Node index.js

```
root@batman:/home/bijay/Reactnode# nano index.js
root@batman:/home/bijay/Reactnode# node index.js
Server running at http://192.168.1.67:6080/
```

Server starts at the specified port and ip.

At the browser, when we enter the ip and port number: 192.168.1.67:6080, We see the following result:

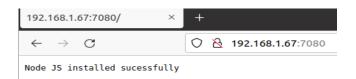


Again for next API, we copy the index.js file and perform necessary editing, *Cp index.js secondindex.js*

By entering the command:

Node secondindex.js

We can host the app, and on browser, when we enter 192.168.1.67:7080, we get this result:



Now, pm2 was installed in our local vm,

Npm install pm2@latest -g

```
+ pm2@5.1.2
added 180 packages from 200 contributors in 49.295s
root@batman:/home/bijay/Reactnode#
```

Now, we can start index.js with PM2 as: pm2 start index.js

And again, for next file, pm2 start secondindex.js



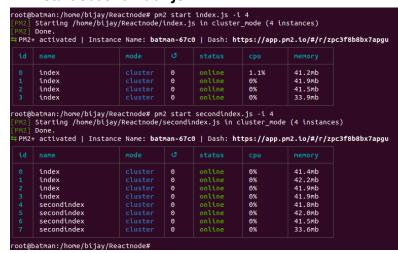
We can concurrently run these processes with pm2.

With command *pm2 plus*, we can get an extended view of all apps and databases in one single place, at real-time or through history.

In order to start 4 instances of both the APIs, these commands were used:

Pm2 start index.js -i 4

Pm2 start secondindex.js -i 4



To delete the clusters one by one, the id of each cluster was mentioned with stop command:

Pm2 stop 0

Pm2 stop 1

Pm2 stop 2

Pm2 stop 3

Pm2 stop 4

Pm2 stop 5

Pm2 stop 6

Pm2 stop 7

