Assignment No 3.

91) Explore any 2 module of Nooless 1-1) Core module !-9) Path module !-The path module is one of the core mod in the woders, designed to hardles wi path 1 directory, path in a platform dependent ways. * Methods !-- gath basemame (path) - path dir name (path) - path. entiman (path) - path, format (path, ob) - gath . join (... gath) - path. resolve (... - path). * Module properties! -path sep - path. delemiter b) Os module:-The os modula in node.) s modules a set of agearing system - releated utility methods 4 proporties. It allows you to access intermeter about the os on which node 18 1s vanning.

/* modules!

3-05. arch()

@ 05. Cp41()

a) Os. freemem()

5) Os. plateform()

6) os. replacerer

a) os. type()

8) Os. homedir()

of Godira.

2) clocal module!

Node)s treats each is file as a sp seperate module. In the module ()s file) out the variables & furction are privale.

To use variable & functions of a module in another module you need to export them at the end of the 1s file.

(92) Write a program to show current date & time using user Jefined module in node Js.

) date Time Module .)s:

exports, set current Date ? Aime = fuetion() & coast current Dute - new Date(); return Gurrent Date - to Local strong ();

app. js:-Const dateTimemodule _ require (". I dateTime Module);

Const current Time Date = require . (current vate Time! Consule . log (" correct Dale & time:", current Dateline); nin provan: -

mpm ceff.)1.

(03) What is moders a explain its working I feeding Node is :-Its a single threaded, open source, cross public divastift runtime environment, built on goode open Source V8 Javascript orgine for hulding fort & Scalable server side of networking applications. Thread executes 1 - working! - Destroy thread executes required?

Thread 2 executes required?

Trapped 3 executes

Thread 3 executes Threed 3 executer server pedicuted thread executer requests. - Feature :-- Node is single Amad. - Asynchronism by default Nodels address blocking 710 irsues by using no-delocking I/o request meaning we can continue making requirest while other Jasks are going on - Node/Ss Is a event - driver. lightweight frameworks that includes heter minimu Module other module can be include as per needs (Ou) Write a program to create a server in Node of & surplay server response on web page? -) Server 15: Const http = require (http);

const port - 3000;

const · Servier = Http. Create server ((reg. res)=) &
res. writchead (200, & content-type · text · titp;
res. write ("hi) hellor · world · </hi) ");
res. end();

3);

Server. 11ston (port. () => {

Console. Locy (" server is running ...);

Run Server using Node;

S) Nod. Server., s.

Step2:
Open a web & browser 1 novigate to
'http://localnort: 3000/:

os Write Event of prodes??

-> Event of Node is:-

D EverlEmmiter:

The EventEmmiter class is a case module is node; that cause of owners to emmit named event that cause fretion object (ilistener') to be called. is provides method to emit event add licteners. I memore etc.

3) Events:

Evert one action or occurrence that happen is the system.

- 3) Event Hardlers (tistemens):
 Event hardlers also known at wistom, are
 functions that are invoked, when a part gardicular
 event is emitted.
 - W Event driven architecture:

 Node)s follow on event driven applications with
 most of the API's are sun Chromause (non-blue
 This allows node)s to hardles a Jarge number
 of connection efficiently.
 - Const EventEmpriter = require (event');

 Const myEmitter = new GurrentEmiter ();

 Const myEventtendle occurred'); 3;

 Const myEventhendle = () =) &

 Console. Jog ("event occurred"); 3;

 MyEventer. on ("myevent", myEventhandler");

 MyEmmiter. emit ("myevent");
 - S) Event loop!

 The event loop is very concepts in Nodess

 Continously letens for events of triggers the

 associated event hardley.