

GANPAT UNIVERSITY
U.V. PATEL COLLEGE OF ENGINEERING
B.Tech 5th Semester CE/IT
2CEIT5PE4: Software Packages

Practical-5

Core modules (util, path, url, os, events) of Node.js

1. Custom Logging with Timestamps
Implement a custom logger using util.format and the fs.appendFile function. The logger should log messages with timestamps to a file named app.log. Each log message should include the current timestamp, severity level (e.g., info, warning, error), and the log message itself.
2. Create a program that accepts a URL and extracts url components like domain name, path, protocol, query etc using the URL module. If file extension is '.js' then shows all components on browser, otherwise shows "Incorrect File format" message on browser.
3. Use the path module to determine if a file path is an absolute path or a relative path.
4. Retrieve information about the free memory and total memory available on your system using the OS module.
5. Create an event emitter instance and register a listener which calculates current date and time and display greeting based on time.
E.g. Today's Date: 21/08/2020
Current Time: 11:06 A.M.
Good Morning.....
6. Do as directed:
 - a. Create multiple listeners with specific event.
 - b. Remove a specific listener.
 - c. Remove all listeners.
 - d. How to get maximum size of listener will bind with specific event?
 - e. How to change maximum size of listeners to bind with specific event?
 - f. Find out name of active listeners for the specified event.
 - g. Find out number of listeners listening to the specified event.
 - h. How to change execution position of listeners?