**HOMEWORK 1**

**PREREQUISITES:**

1. Install the latest **LTS** (Long Term Support) version of **Node.js** (https://nodejs.org/en/)

2. Check in the console (terminal) that the Node.js installation was done properly by running the following commands node -v or node -version.

3. Create a repo for your homework tasks on **Github** (https://github.com/) or **git.epam.com**.

4. Provide your mentor with the link to the repo and add read access permissions.

5. Create package.json by running the following commands npm init or npm init -y.

6. Install **nodemon npm package** (https://github.com/remy/nodemon) to **dev dependency**.

**Task 1:**

Write a program which reads an array from the standard input stdin and implement a custom sort for this array in ascending and descending order (these are sent via command line args by –mode flag as “asc” or “desc”)

• The program should be started from **npm** script via **nodemon** (i.e. npm run <command>).

• The program should be running in a stand-by mode and should not be terminated after the first-string processing.

**Task 2:**

Write a program to use Child process to print “node version” and “number of cores in CPU”

**Task 3:**

Write another program to print “list of files in a directory” – passed by command line arguments

Take care of handling all cases (if no path/directory exists – print appropriate error in console)

Otherwise using NPM script, accept command line args, parse those to determine “directory path” and print list of file names

**Task 4:**

Write a node program to create a HTTP server which has below routes

1. /readfile – this is a GET call which takes a file path and read contents from the file to print.
2. /writefile – this is a POST call which accepts a file path and content to be written to the specific file, take care of file descriptor and exception handling like if no file exists, new file should be created
3. /deletefile – this is a DELETE call which takes the file path, should delete the file

Implement both sync and async ways for “/readfile”,“/writefile” and “/deletefile”

Test your server and routes implementation using POSTMAN

Bonus: use “—inspector” flag to debug the implementation.