



Assignment2

- 1. Write a function that logs the current file path and directory. (0.5 Grade)
 - Output Example: {File: "/home/user/project/index.js", Dir: "/home/user/project"}
- 2. Write a function that takes a file path and returns its file name. (0.5 Grade)
 - Input Example: /user/files/report.pdf
 - Output Example: "report.pdf"
- 3. Write a function that builds a path from an object (0.5 Grade)
 - Input Example: { dir: "/folder", name: "app", ext: ".js"}
 - Output Example: "/folder/app.js"
- 4. Write a function that returns the file extension from a given file path. (0.5 Grade)
 - Input Example: /docs/readme.md"
 - Output Example: ".md"
- 5. Write a function that parses a given path and returns its name and ext. (0.5 Grade)
 - Input Example: /home/app/main.js
 - Output Example: { Name: "main", Ext: ".js" }
- 6. Write a function that checks whether a given path is absolute. (0.5 Grade)
 - Input Example: /home/user/file.txt
 - Output Example: true
- 7. Write a function that joins multiple segments (0.5 Grade)
 - Input: "src", "components", "App.js"
 - Output Example: src/components/App.js
- 8. Write a function that resolves a relative path to an absolute one. (0.5 Grade)
 - Input Example: ./index.js
 - Output Example: /home/user/project/src/index.js
- 9. Write a function that joins two paths. (0.5 Grade)
 - Input Example: /folder1, folder2/file.txt
 - Output Example: /folder1/folder2/file.txt
- 10. Write a function that deletes a file asynchronously. (0.5 Grade)
 - Input Example: /path/to/file.txt
 - Output Example: The file.txt is deleted.
- 11. Write a function that creates a folder synchronously. (0.5 Grade)
 - Output Example: "Success"
- 12. Create an event emitter that listens for a "start" event and logs a welcome message. (0.5 Grade)
 - Output Example: Welcome event triggered!
- 13. Emit a custom "login" event with a username parameter. (0.5 Grade)
 - Input Example: "Ahmed"
 - Output Example: "User logged in: Ahmed"
- 14. Read a file synchronously and log its contents. (0.5 Grade)
 - Input Example: "./notes.txt"
 - Output Example: the file content => "This is a note."
- 15. Write asynchronously to a file. (0.5 Grade)
 - Input: path: "./async.txt", content: "Async save"
- 16. Check if a directory exists. (0.5 Grade)
 - Input Example: "./notes.txt"
 - Output Example: true
- 17. Write a function that returns the OS platform and CPU architecture. (0.5 Grade)
 - Output Example: {Platform: "win32", Arch: "x64"}





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- 18. Use a readable stream to read a file in chunks and log each chunk. (0.5 Grade)
 - Input Example: "./big.txt"
 - Output Example: log each chunk
- 19. Use readable and writable streams to copy content from one file to another. (0.5 Grade)
 - Input Example: "./source.txt", "./dest.txt"
 - Output Example: File copied using streams
- 20. Create a pipeline that reads a file, compresses it, and writes it to another file. (0.5 Grade)
 - Input Example: "./data.txt", "./data.txt.gz"

C. Bonus (3 Grades):

How to deliver the bonus?

- **1-** Solve the problem kth-missing-positive-number on LeetCode
- 2- Inside your assignment folder, create a SEPARATE FILE and name it "bonus.js"
- 3- Copy the code that you have submitted on the website inside "bonus.js" file