1. **Describe a Node.js script designed to monitor system memory usage and emit a custom event when the memory usage exceeds a specified threshold. Explain the steps involved in monitoring system memory usage, triggering the event, and handling the event. Additionally, discuss how the script ensures that memory monitoring stops after a certain duration. Lastly, propose potential improvements to the script, such as error handling or efficiency enhancements.**
2. **Write a NodeJS code to write the text “You are creating a file” to Hi.txt file. After that append the text “you are appending data” to same Hi.txt file. After that read the file and print file contents on console. After finishing read operation, file should be deleted with the message “the file is deleted” on console. After that print the line “Thanks for using my program” on console. write, append, read, delete sequence must be maintained using file system module only. all write, append, read, delete operations are asynchronous.**
3. **Write a NodeJS code to calculate and display the profit or loss incurred by an investor who purchased 100 shares of a company's stock at Rs.50 per share and later sold them at Rs.60 per share. The script should utilize the HTTP module to create an HTTP server that serves the profit or loss details. If there is a profit, the message should be displayed in green color, and if there is a loss, it should be displayed in red color on server.**
4. **Link:**

<https://forms.gle/Y3qY6x3WP7K6aXa68>