1. Download the file [scraper.sh](https://hs2solutions-my.sharepoint.com/:u:/g/personal/sharath_ram_bounteous_com/EVjtybZVxKRHjRNAwDkxVIYB_IKgcXaEGaAEjgcYAnTC1Q?e=MwOOxC) . Make the file executable. The file takes any wikipedia webpage as an argument. Run the process on multiple sites like [Wikipedia:Stub - Wikipedia](https://en.wikipedia.org/wiki/Wikipedia:Stub) , [India - Wikipedia](https://en.wikipedia.org/wiki/India) at the same time and
   1. Find all the processes running on the system.
   2. Find the first 5 processes with the highest memory usage.
2. Print the HTTP response code obtained from google.com.
3. Find the top 3 running processes which consume the most processing power.
4. Write a script that finds all files larger than 100MB in a directory and lists them.
5. Find which version of Python is installed on the system.
6. Get the current time zone of your system.
7. Get the current time in New York, London, and Sydney.
8. Check for how long the system is up.
9. Given a log file:
   1. Find all the errors in the log and dump them to a new file.
   2. What events occurred between 09:10 and 09:19?
   3. How many INFO messages are in the log file?
   4. Print the first 5 lines of the file.
   5. Print the last 5 lines of the file.
   6. Print lines if the lines contain error, fail, or warning.
   7. Rename the file to new\_log.txt.
   8. Edit the log file and add the string "hello, world!" at the beginning of the file.
   9. Delete the old log file.
   10. Filter entries containing the "INFO" string for a particular date for a given log file, you can use the sample log file given below.
10. Write a command to continuously monitor what is being appended to the file and output if you find the string "Error".
11. Connect to google.com and copy the output to a text file.
12. Create a file called example.txt. Write a script to make it read-only for all users.
13. Write a script that changes the permissions of a script named myscript.sh to make it executable by the owner, group, and others.
14. Recursively make all the files readable in a directory.
15. List out all the files that end with ".log" in a directory.
16. Write a command to get the kernel version.
17. Find the IP address of the system.
18. Write a script to list all files and directories in the current directory, sorted by size.
19. List all files and directories in the current directory with sizes in human-readable format.
20. Print the hostname a computer.
21. Command to Kill a particular process running in your system.
22. Create two files test1.txt and test2.txt with some content and merge it to a single file test.text
23. Create a shell script test.sh with the content given at the bottom and execute it.
24. Tes.sh creates mutiple process , wrtie command to kill some specific process with given pid.
25. Write a shell script which take your name as input and it will dispaly Hello your name.
26. Write a command to download file.zip from <https://github.com/github/gitignore/archive/refs/heads/main.zip>
27. Write a command to zip test.txt to test.zip and unzip it.

Sample log file:

2025-02-18 08:45:12 INFO Starting the application  
2025-02-18 08:46:23 WARN Low disk space on /dev/sda1  
2025-02-18 08:47:34 ERROR Failed to connect to database  
2025-02-18 08:47:34 ERROR Details:  
2025-02-18 08:47:34 ERROR Connection timeout after 30 seconds  
2025-02-18 08:48:45 INFO User login successful: user1  
2025-02-18 08:49:56 INFO Scheduled backup completed  
2025-02-18 08:50:15 INFO User login successful: user2  
2025-02-18 08:51:45 ERROR Unable to write to log file  
2025-02-18 08:51:45 ERROR Details:  
2025-02-18 08:51:45 ERROR Disk write permission denied  
2025-02-18 08:52:30 INFO User logout: user1  
2025-02-18 08:53:50 WARN High memory usage detected  
2025-02-18 08:54:22 INFO User login successful: user3  
2025-02-18 08:55:33 INFO File upload completed: file1.txt  
2025-02-18 08:56:45 ERROR Network timeout  
2025-02-18 08:56:45 ERROR Details:  
2025-02-18 08:56:45 ERROR Server did not respond within the allotted time  
2025-02-18 08:57:56 INFO User logout: user2  
2025-02-18 08:58:12 INFO User login successful: user4  
2025-02-18 08:59:23 INFO Scheduled maintenance started  
2025-02-18 09:00:34 INFO User logout: user3  
2025-02-18 09:01:45 INFO Application shutdown initiated  
2025-02-18 09:02:56 INFO Application shutdown completed  
  
2025-02-19 09:05:23 INFO Starting the application  
2025-02-19 09:06:45 WARN Low disk space on /dev/sda1  
2025-02-19 09:07:12 ERROR Failed to connect to database  
2025-02-19 09:07:12 ERROR Details:  
2025-02-19 09:07:12 ERROR Connection timeout after 30 seconds  
2025-02-19 09:08:34 INFO User login successful: user1  
2025-02-19 09:09:56 INFO Scheduled backup completed  
2025-02-19 09:10:15 INFO User login successful: user2  
2025-02-19 09:11:45 ERROR Unable to write to log file  
2025-02-19 09:11:45 ERROR Details:  
2025-02-19 09:11:45 ERROR Disk write permission denied  
2025-02-19 09:12:30 INFO User logout: user1  
2025-02-19 09:13:50 WARN High memory usage detected  
2025-02-19 09:14:22 INFO User login successful: user3  
2025-02-19 09:15:33 INFO File upload completed: file1.txt  
2025-02-19 09:16:45 ERROR Network timeout  
2025-02-19 09:16:45 ERROR Details:  
2025-02-19 09:16:45 ERROR Server did not respond within the allotted time  
2025-02-19 09:17:56 INFO User logout: user2  
2025-02-19 09:18:12 INFO User login successful: user4  
2025-02-19 09:19:23 INFO Scheduled maintenance started  
2025-02-19 09:20:34 INFO User logout: user3  
2025-02-19 09:21:45 INFO Application shutdown initiated  
2025-02-19 09:22:56 INFO Application shutdown completed  
2025-02-19 09:23:45 INFO System reboot initiated  
2025-02-19 09:24:56 INFO System reboot completed  
2025-02-19 09:25:34 INFO User login successful: admin  
2025-02-19 09:26:45 WARN CPU temperature high  
2025-02-19 09:27:56 INFO User logout: admin  
2025-02-19 09:28:34 INFO User login successful: user5  
2025-02-19 09:29:45 ERROR Application crash  
2025-02-19 09:29:45 ERROR Details:  
2025-02-19 09:29:45 ERROR Null pointer exception in module X  
2025-02-19 09:30:56 INFO User logout: user5  
  
2025-02-20 10:05:23 INFO Starting the application  
2025-02-20 10:06:45 WARN Low disk space on /dev/sda1  
2025-02-20 10:07:12 ERROR Failed to connect to database  
2025-02-20 10:07:12 ERROR Details:  
2025-02-20 10:07:12 ERROR Connection timeout after 30 seconds  
2025-02-20 10:08:34 INFO User login successful: user1  
2025-02-20 10:09:56 INFO Scheduled backup completed  
2025-02-20 10:10:15 INFO User login successful: user2  
2025-02-20 10:11:45 ERROR Unable to write to log file  
2025-02-20 10:11:45 ERROR Details:  
2025-02-20 10:11:45 ERROR Disk write permission denied  
2025-02-20 10:12:30 INFO User logout: user1  
2025-02-20 10:13:50 WARN High memory usage detected  
2025-02-20 10:14:22 INFO User login successful: user3  
2025-02-20 10:15:33 INFO File upload completed: file1.txt  
2025-02-20 10:16:45 ERROR Network timeout  
2025-02-20 10:16:45 ERROR Details:  
2025-02-20 10:16:45 ERROR Server did not respond within the allotted time  
2025-02-20 10:17:56 INFO User logout: user2  
2025-02-20 10:18:12 INFO User login successful: user4  
2025-02-20 10:19:23 INFO Scheduled maintenance started  
2025-02-20 10:20:34 INFO User logout: user3  
2025-02-20 10:21:45 INFO Application shutdown initiated  
2025-02-20 10:22:56 INFO Application shutdown completed  
2025-02-20 10:23:45 INFO System reboot initiated  
2025-02-20 10:24:56 INFO System reboot completed  
2025-02-20 10:25:34 INFO User login successful: admin  
2025-02-20 10:26:45 WARN CPU temperature high  
2025-02-20 10:27:56 INFO User logout: admin  
2025-02-20 10:28:34 INFO User login successful: user5  
2025-02-20 10:29:45 ERROR Application crash  
2025-02-20 10:29:45 ERROR Details:  
2025-02-20 10:29:45 ERROR Null pointer exception in module X  
2025-02-20 10:30:56 INFO User logout: user5

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Test.sh

num\_processes=10

for ((i=1; i<=num\_processes; i++))

do

# Forking a child process

(sleep 60) &

echo "Created process with PID: $!"

done

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