LOVELY PROFESSIONAL UNIVERSITY

Academic Task-3 (Compulsory)

INT301: Open-Source Technologies

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Q 43. 43. Using desired Open-Source Software provide details of the motherboard, network, storage devices, and display. Also, create an HTML report of everything and create favorites to have instant access to any hardware component from the menu bar.

Open source tools: Ishw (for Linux)

Ishw (for Linux):

To use Ishw in Ubuntu, you can open a terminal and type:

sudo Ishw -html > output.html

This will run the Ishw command with administrative privileges (required to access certain system information) and output the results in HTML format to a file named output.html in the current directory. I can then open the file in a web browser to view the results.

```
sams@DESKTOP-6NOT9QA:~$
                                    lshw - list hardware
Hardware Lister (lshw) -
usage: lshw [-format] [-options ...]
        lshw -version
         -version
                            print program version ()
format can be
         -html
                           output hardware tree as HTML
         -xml
                           output hardware tree as XML
         -json
                           output hardware tree as a JSON object
         -short
                           output hardware paths
                           output bus information
         -businfo
options can be
         -class CLASS
                           only show a certain class of hardware
                           same as '-class CLASS'
same as '-class CLASS'
         -C CLASS
         -c CLASS
                           disable a test (like pci, isapnp, cpuid, etc. ) enable a test (like pci, isapnp, cpuid, etc. )
         -disable TEST
         -enable TEST
         -quiet
                           don't display status
         -sanitize
                           sanitize output (remove sensitive information like serial numbers, etc.)
                           output numeric IDs (for PCI, USB, etc.)
         -numeric
         -notime
                           exclude volatile attributes (timestamps) from output
sams@DESKTOP-6NOT9QA:~$ lshw -o -html
Hardware Lister (lshw) -
usage: lshw [-format] [-options ...]
       lshw -version
        -version
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usage: lshw [-format] [-options ...]
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        -version
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format can be
        -html
                          output hardware tree as HTML
                         output hardware tree as XML
        -xml
```

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```
sams@DESKTOP-6NOT9QA:~$ lshw -html > demo.html
WARNING: you should run this program as super-user.
WARNING: output may be incomplete or inaccurate, you should run this program as super-user.
sams@DESKTOP-6NOT9QA:~$ ls
GPT-Terminal-Support calculator.sh cha.sh demo.html grater.sh test
ashad calculator.sh.save demo for.sh script test09
sams@DESKTOP-6NOT9QA:~$ code .
Updating VS Code Server to version 7f329fe6c66b0f86ae1574c2911b681ad5a45d63
Removing previous installation...
Installing VS Code Server for x64 (7f329fe6c66b0f86ae1574c2911b681ad5a45d63)
Downloading: 100%
Unpacking: 100%
Unpacking: 100%
Unpacked 2407 files and folders to /home/sams/.vscode-server/bin/7f329fe6c66b0f86ae1574c2911b681ad5a45d63.
sams@DESKTOP-6NOT9QA:~$
```

```
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sams@DESKTOP-6NOT9QA:~$
```

```
Microsoft Windows [Version 10.0.19045.2728]
(c) Microsoft Corporation. All rights reserved.

C:\Users\samsn\OneDrive\Desktop\Github\INT301->git push
Everything up-to-date

C:\Users\samsn\OneDrive\Desktop\Github\INT301->git add .

C:\Users\samsn\OneDrive\Desktop\Github\INT301->git commit -m "html report"
[main 1c0d415] html report

1 file changed, 147 insertions(+)
create mode 100644 report.html

C:\Users\samsn\OneDrive\Desktop\Github\INT301->git push
Enumerating objects: 4, done.

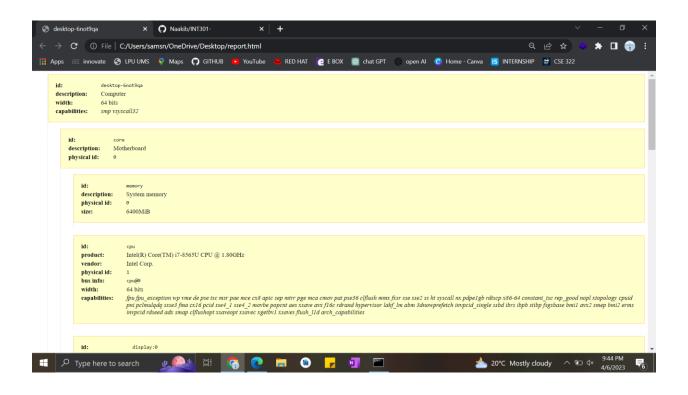
Counting objects: 100% (4/4), done.

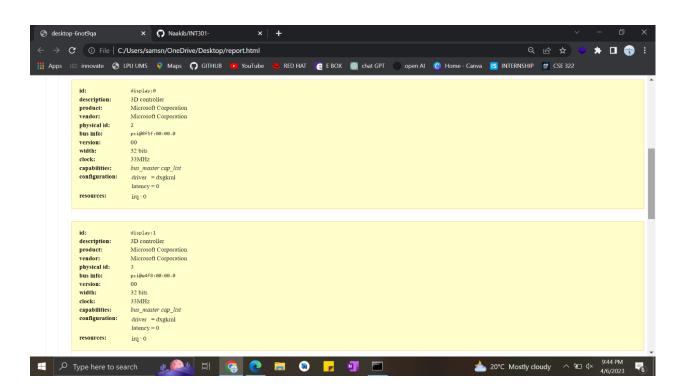
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 2.61 KiB | 2.61 MiB/s, done.

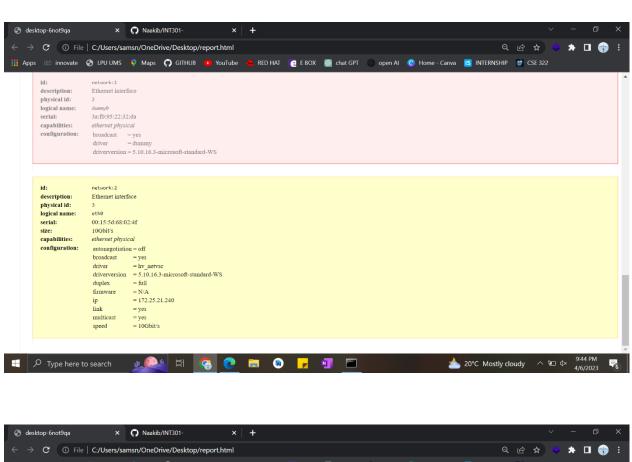
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

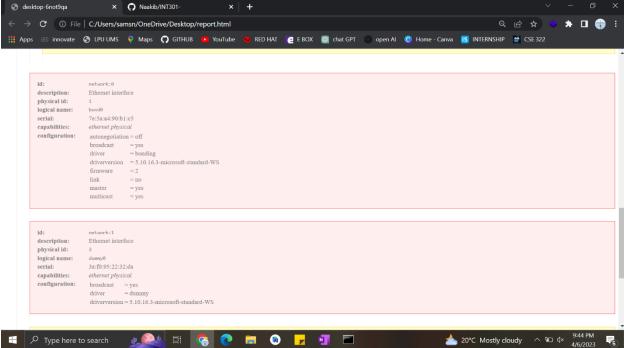
To https://github.com/Naakib/INT301-.git
61f402c..1c0d415 main -> main
```

Display HTML file:









Git hub link: https://github.com/Naakib/INT301-.git