



**RECEP TAYYIP ERDOGAN UNIVERSITY
FACULTY OF ENGINEERING AND ARCHITECTURE
COMPUTER ENGINEERING DEPARTMENT**

CE103 Algorithms and Programming-I

2022-2023 Fall

Homework No: 1

Due Date: 19.10.2022

Student Name Surname

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RIZE

2022

ETHICAL STATEMENT

I hereby declare that all information in this document has been obtained and presented in accordance with academic rules and ethical conduct. I also declare that, as required by these rules and conduct, I have fully cited and referenced all material and results that are not original to this work.

Date: 18 / 10 / 22

Name Surname

Melih Divan

Problem-1.1

Prepare a .bat (windows) and .sh (Linux-wsl) script that collects user environment information for e-mailing with an attachment

For Windows OS prepare *.bat file, and for WSL Linux, create *.sh files separately

Each file should provide the following information from the operating system

- Get Computer Name and User Name
- Get Current Hostname
- Get Current IP and Network Adapters
- Get Available Memory Space
- Get Available Harddisk Space
- Get Current Working Directory
- Get Current Running Applications and Services
- Get Current Opened Ports

Create this output and save to a file **client-device-information.txt**

Expected Problem-1.1 Output

Batch script file with inline description. Do not forget to explain your script operations in the bat file and sh script

How did I solve this?

-I created a .bat file, I put my commands which I found from web and my comments to it. Secondly I opened wsl and downloaded Ubuntu. Created a .sh file and found linux commands from web. I uploaded them to <https://github.com/Melihdvn/ce103-hw1-melih-divan>

Problem-1.2

Follow the required steps and share the logs with asciicinema

<https://asciinema.org/docs/installation#installing-on-linux>

- Open git in WSL and start asciicinema
- Create repo named with sample-git on your local folder
- Create .gitignore with a gig for C C++ Java and VisualStudio and save to repo
- Commit Changes
- Create a remote repository on your Github with the same name
- Create a README.md in your local folder and commit this change
- Link Github repo with a local repo with git remote
- Push your local changes to the remote repo
- Pull remote changes
- Create 4 branch
 - o feature/branch-1
 - o feature/branch-2
 - o feature/branch-3
 - o feature/branch-4
- Push all branches to remote repo with - - all tag
- Move to “feature/branch-1”
- Add a textfile named “Hello-1.txt”
- Commit changes
- Insert “CE103 Algorithms and Programmin – I ” in Hello-1.txt
- Commit changes
- Switch “feature/branch-2”
- Update content “Algorithms and Programmin – I ” in Hello-1.txt
- Commit changes
- Merge “feature/branch-1” with “feature/branch-2”
- Commit changes

- Stop asciinema and share the public video link your homework and git repository

Expected Problem-1.2 Output

Github Repo

Asciinema Content and Public URL

How did I solve this?

Firstly, I installed asciinema, secondly I followed the instructions and I created repo:

<https://github.com/Melihdvn/sample-git>

My asciinema link:

<https://asciinema.org/a/K2tk6m6wfeg6O1CA8OWF5xh9G>

Problem-1.3

In this problem you will fork <https://github.com/ucoruh/course-note-template> mldocs-material theme example repository and prepare a dummy course note according to your selection. You can also checkout <https://github.com/ucoruh/project-cleaner> example. At least you will prepare 2 weeks dummy course notes and slides and other files with this content and then you will publish them on your github pages account.

Expected Problem-1.3 Output

Forked github repo

Github pages sample course notes

How did I solve this?

Firstly, I forked <https://github.com/ucoruh/course-note-template> after that, I installed mldocs. I edited template and created dummy course notes,

My repo : <https://github.com/Melihdvn/dr101-course-notes>

My site link: <https://melihdvn.github.io/dr101-course-notes/>

References

<https://ucoruh.github.io/ce103-algorithms-and-programming-I>