⬤ Middle East Technical University   ◆ Department of Computer Engineering

CENG 111

Introduction to Computer Engineering Concepts

Fall '2022-2023

Linux Exercise

Instructions

For each question, run the commands required to accomplish the listed tasks in order. You may need to type **more than one command** for some of the questions. You should complete this exercise on ineks, you can login an inek machine in our labs or connect via ssh. Then, download the quiz archive "quiz.tar.gz" from "http://www.ceng.metu.edu.tr/~ceng111/lab/quiz.tar.gz" and extract it in to your home directory:

```
$ wget http://www.ceng.metu.edu.tr/~ceng111/lab/quiz.tar.gz
$ tar -xf quiz.tar.gz
$ cd ceng111quiz
```

Complete the task one by one in the given order. You can check your grade by running the script named **"grade"** under the home directory of "ceng111" user. There is a ceng111 user inside our server like your student accounts and the permissions of the **"grade"** script lets you run the script from your account. Note: You must execute the script inside your "ceng111quiz" folder. You can just type the command below to see your grade.

```
$ ~ceng111/grade
```

Question-1 (6 points each)

1. Create a new folder named "backup".

2. Create a new file named "hello.txt" under the folder "backup".

3. Copy the file named "hw1.txt" under "courses/ceng443/" to the folder "backup".

4. Move the file named "hw1.c" under "courses/ceng140/" to the folder "backup" with the name "ceng140_hw1.c".

5. Remove the folder named "templates".

6. Copy the folder named "music" to the folder "backup".

Question-2 (7 points each)

1. Change the permissions of the file "ceng111.txt" so that the owner can read and write but cannot execute, and group and others can read but cannot write and execute.

2. Execute the script named "arrange.sh" placed under the folder "music".

3. Copy the file named "ceng111.txt" to the folder "notrespassing".

Question-3 (7 points each)

1. Lists all the lines of "courses/ceng111/hw2.py" that contain the word "def". Direct the output to a file named "defs.txt".

2. Count the number of files/folders that the "music" folder contains and write the result to a file named "numMusic.txt". Hint: "wc"

Question-4 (7 points each)

1. Copy all the files under "videos" folder that have the extension "avi" to a new folder named "videos" under "backup" folder.

2. Copy all the files under "pictures" folder that have extension "jpg" to a new folder named "pictures" under "backup" folder.

Question-5 (7 points each)

1. Remove 42 characters from the 956th line of the file "documents/alice.txt".

2. Remove 7 lines starting from the 15th line of the file "documents/flatland.txt" and append them 341 times to the end of the file.