Name: Chey Naryvety

ID: IDTB110199
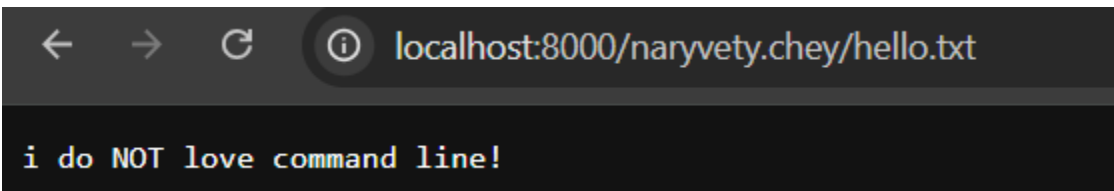
NOTE: Since we are running on localhost, Apache accesses files as the owner.

LAP 3

Lab: Your Work (1)

1. Access to remote server "`ssh your_student_id@os.cammob.ovh`"
2. Change the file permission "`public_html/your.full.name/hello.txt`"
   - **User** owner: **CAN read**, **write** and **execute**
   - **Group**: **CAN read** and **execute**, and **CANNOT write**
   - **Others**: **CAN read**, but **CANNOT write** and **execute**
3. Go to browser enter
   - `http://your_student_id.os.cammob.ovh/your.full.name/hello.txt`
4. **Question:** What you notice in your browser? Why is that?

```
ashxio@ashio:~$ cd public_html/naryvety.chey/
ashxio@ashio:~/public_html/naryvety.chey$ chmod 755 hello.txt
```
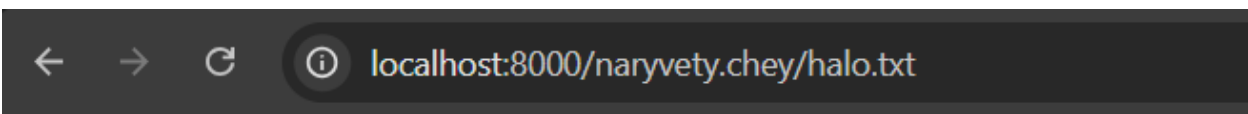
```
←  →  C   ⓘ  localhost:8000/naryvety.chey/hello.txt
```

```
i do NOT love command line!
```

The browser displays the content of hello.txt because the file has all permission for owner, allowing the web server to read and show the file.

Lab: Your Work (2)

1. Access to remote server "`ssh your_student_id@os.cammob.ovh`"
2. Copy your "`hello.txt`" file to "`halo.txt`"
3. Change the file permission "`halo.txt`"
   - **User** owner: CANNOT **read**, **write** and **execute**
   - **Group**: CANNOT **read**, **write** and **execute**
   - **Others**: **CAN read**, **write** and **execute**
4. Go to browser enter
   - `http://your_student_id.os.cammob.ovh/your.full.name/halo.txt`
5. **Question:** What you notice in your browser? Why is that?

```
ashxio@ashio:~/public_html/naryvety.chey$ cp hello.txt halo.txt
ashxio@ashio:~/public_html/naryvety.chey$ chmod 007 halo.txt
```

localhost:8000/naryvety.chey/halo.txt

Error response

Error code: 404

Message: File not found.

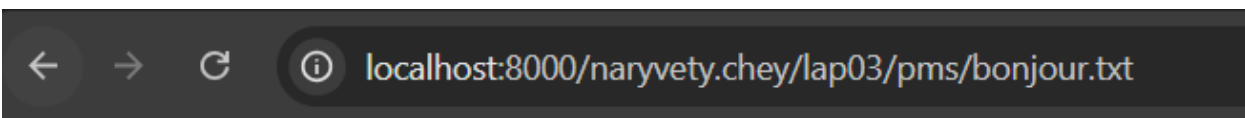Error code explanation: 404 - Nothing matches the given URI.

The browser shows an error because although others have permission on the file, it is also writable by others yet no owner/group permission halo.txt and are considered unsafe.

Lab: Your Work (3)

1. Access to remote server "`ssh your_student_id@os.cammob.ovh`"
2. Create new directory "`pms`" inside "`public_html/your.full.name/lab03/`"
3. Copy your file "`hello.txt`" to another file located at "`lab03/pms/bonjour.txt`"
4. Change the directory permission of "`lab03/pms/`" to
   - **User** owner: CANNOT **read**, **write** and **execute**
   - **Group**: CANNOT **read**, **write** and **execute**
   - **Others**: CANNOT **read**, **write** and **execute**
5. Change the file permission of "`lab03/pms/bonjour.txt`" to
   - **User** owner: **CAN read**, **write** and **execute**
   - **Group**: **CAN read**, **write** and **execute**
   - **Others**: **CAN read**, **write** and **execute**
6. Go to browser enter
   - `http://your_student_id.os.cammob.ovh/your.full.name/lab03/pms/bonjour.txt`
7. **Question:** What you notice in your browser? Why is that?

```
ashxio@ashio:~/public_html/naryvety.chey$ cd lap03/
ashxio@ashio:~/public_html/naryvety.chey/lap03$ mkdir pms
ashxio@ashio:~/public_html/naryvety.chey/lap03$ cd pms/
ashxio@ashio:~/public_html/naryvety.chey/lap03/pms$ cp ../../hello.txt bonjour.txt
ashxio@ashio:~/public_html/naryvety.chey/lap03/pms$ chmod 000 .
ashxio@ashio:~/public_html/naryvety.chey/lap03/pms$ chmod 777 bonjour.txt
chmod: cannot access 'bonjour.txt': Permission denied
```

← → C ⓘ localhost:8000/naryvety.chey/lap03/pms/bonjour.txt

Error response

Error code: 404

Message: File not found.

Error code explanation: 404 - Nothing matches the given URI.

Browser shows error because changing the permission for bonjour.txt was impossible due to directory not have permissions at all and even if bonjour.txt allows all to read, write, and execute, the problem is that directory pms has NO permission.

Assignment W03-1

1. Access to your account in remote server "`ssh your_student_id@os.cammob.ovh`"
2. Create new directory "`a01`", "`a02`", "`a03`", "`a04`", "`a05`", "`a06`", "`a07`", "`a08`", "`a09`", "`a10`" inside directory "`public_html/your.full.name/lab03/`"
3. Create new files "`all.txt`", "`user.txt`", "`group.txt`" and "`other.txt`" inside each directory you just created above (a01, a02, …, a10)

```
ashxio@ashio:~/public_html/naryvety.chey/lap03$ mkdir a{01..10}
ashxio@ashio:~/public_html/naryvety.chey/lap03$ touch a{01..10}/{all,user,group,other}.txt
```

Assignment W03-1 (continue)

1. Write command to change file permission of "`all.txt`" by using "**Symbolic Mode**"
   a. *User owner*, *group*, and *others* **CAN** read, write and execute
2. Write command to change file permission of "`user.txt`" by using "**Numeric Mode**"
   a. *User owner* **CAN** read, write and execute
   b. *Group*, and *others* **CANNOT** read, write and execute
3. Write command to change file permission of "`group.txt`" by using "**Numeric Mode**"
   a. *User owner* and *others* **CANNOT** read, write and execute
   b. *Group* **CAN** read, write and execute
4. Write command to change file permission of "`other.txt`" by using "**Symbolic Mode**"
   a. *User owner* and *group* **CANNOT** read, write and execute
   b. *Others* **CAN** read, write and execute

```
ashxio@ashio:~/public_html/naryvety.chey/lap03$ mkdir a{01..10}
ashxio@ashio:~/public_html/naryvety.chey/lap03$ touch a{01..10}/{all,user,group,other}.txt
ashxio@ashio:~/public_html/naryvety.chey/lap03$ chmod a+rwx a{01..10}/all.txt
ashxio@ashio:~/public_html/naryvety.chey/lap03$ chmod 700 a{01..10}/user.txt
ashxio@ashio:~/public_html/naryvety.chey/lap03$ chmod 070 a{01..10}/group.txt
ashxio@ashio:~/public_html/naryvety.chey/lap03$ chmod u-rwx,g-rwx,o+rwx a{01..10}/other.txt
```

localhost:8000/naryvety.chey/lap03/a10/

Directory listing for /naryvety.chey/lap03/a10/

- all.txt
- group.txt
- other.txt
- user.txt

localhost:8000/naryvety.chey/lap03/a10/all.txt

localhost:8000/naryvety.chey/lap03/a10/user.txt

localhost:8000/naryvety.chey/lap03/a10/group.txt

Error response

Error code: 404

Message: File not found.

Error code explanation: 404 - Nothing matches the given URI.

localhost:8000/naryvety.chey/lap03/a10/other.txt

Error response

Error code: 404

Message: File not found.

Error code explanation: 404 - Nothing matches the given URI.

all.txt shown: all have read permissions

user.txt shown: user have all permissions

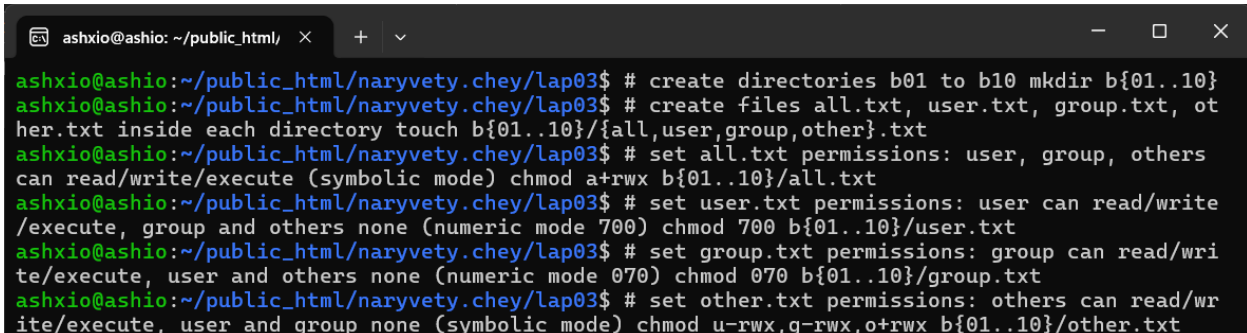group.txt error: both owner and others don't have permissions

other.txt error: no owner/group permissions only others permissions so they are considered unsafe.

BONUS W03

1. Write minimal command lines to work on "**Assignment W03-1**" again but with directory "**b01**", "**b02**", …, "**b10**" instead of "**a01**", …

2. Submit your list of command lines you entered to get this results in another "bonus.pdf" file with writing comment in each command line
   (NOTE: comment is start with #)
   - For example:

   ```
   # change my current directory to my working space of lab03
   cd public_html/kannika.kong/lab03/

   # create directory "dir01" inside "lab03" directory
   mkdir dir01
   ```



```
ashxio@ashio:~/public_html/naryvety.chey/lap03$ # create directories b01 to b10 mkdir b{01..10}
ashxio@ashio:~/public_html/naryvety.chey/lap03$ # create files all.txt, user.txt, group.txt, ot
her.txt inside each directory touch b{01..10}/{all,user,group,other}.txt
ashxio@ashio:~/public_html/naryvety.chey/lap03$ # set all.txt permissions: user, group, others
can read/write/execute (symbolic mode) chmod a+rwx b{01..10}/all.txt
ashxio@ashio:~/public_html/naryvety.chey/lap03$ # set user.txt permissions: user can read/write
/execute, group and others none (numeric mode 700) chmod 700 b{01..10}/user.txt
ashxio@ashio:~/public_html/naryvety.chey/lap03$ # set group.txt permissions: group can read/wri
te/execute, user and others none (numeric mode 070) chmod 070 b{01..10}/group.txt
ashxio@ashio:~/public_html/naryvety.chey/lap03$ # set other.txt permissions: others can read/wr
ite/execute, user and group none (symbolic mode) chmod u-rwx,g-rwx,o+rwx b{01..10}/other.txt
```

1. To make a bunch of dir with the same starting name and numbers ascending from one num to another we can js use mkdir name with {fromnum..tonum} to represent the numbers in between those num
2. To create a file in a dir we would write dir/filename.txt so to shortens it we can use {..}/{..} instead of writing a loop to add all four files into all dir. the first {} being all the dir the files go into and the second {} for files then just put .typefile u want create
3. Numeric mode: first digit for user, second for group, third for others and r = 4, w = 2, x = 1
4. Symbolic mode: u for user, g for group, o for other and a for all (user, group, other). Use (+) to give can permission and use (-) to give cant permission