

## Bài Tập Mở Rộng Tuần 1

### Bài 1:

- Tạo cây thư mục theo yêu cầu đề bài

```
ubuntu@ubuntu-2274802010449:~$ mkdir -p Documents/Assignments
ubuntu@ubuntu-2274802010449:~$ mkdir -p Documents/Notes
ubuntu@ubuntu-2274802010449:~$ mkdir -p Documents/Projects/project1
ubuntu@ubuntu-2274802010449:~$ mkdir -p Documents/Projects/project2
ubuntu@ubuntu-2274802010449:~$ mkdir Downloads
ubuntu@ubuntu-2274802010449:~$ mkdir -p Pictures/vacation
ubuntu@ubuntu-2274802010449:~$ mkdir -p Picture/family
ubuntu@ubuntu-2274802010449:~$ touch Documents/Assignments/assignment1.txt
ubuntu@ubuntu-2274802010449:~$ touch Documents/Assignments/assignment2.txt
ubuntu@ubuntu-2274802010449:~$ touch Documents/Notes/note1.txt
ubuntu@ubuntu-2274802010449:~$ touch Documents/Notes/note2.txt
ubuntu@ubuntu-2274802010449:~$ touch Documents/Projects/project1/main.sh
ubuntu@ubuntu-2274802010449:~$ touch Documents/Projects/project1/README.md
ubuntu@ubuntu-2274802010449:~$ touch Documents/Projects/project2/script.sh
ubuntu@ubuntu-2274802010449:~$ touch Documents/Projects/project2/data.csv
ubuntu@ubuntu-2274802010449:~$ touch Downloads/file1.zip
ubuntu@ubuntu-2274802010449:~$ touch Downloads/file2.tar.gz
ubuntu@ubuntu-2274802010449:~$ rm -rf ~/Picture
ubuntu@ubuntu-2274802010449:~$ mkdir -p Pictures/family
ubuntu@ubuntu-2274802010449:~$ touch Pictures/vacation/img1.jpg
ubuntu@ubuntu-2274802010449:~$ ^C
ubuntu@ubuntu-2274802010449:~$ touch Pictures/vacation/img2.jpg
ubuntu@ubuntu-2274802010449:~$ touch Pictures/family/img3.jpg
ubuntu@ubuntu-2274802010449:~$ touch Pictures/family/img4.jpg
ubuntu@ubuntu-2274802010449:~$ tree
```

- Hình ảnh cây thư mục

```
.
|-- Documents
|   |-- Assignments
|       |-- assignment1.txt
|       |-- assignment2.txt
|   |-- Notes
|       |-- note1.txt
|       |-- note2.txt
|   |-- Projects
|       |-- project1
|           |-- README.md
|           |-- main.sh
|       |-- project2
|           |-- data.csv
|           |-- script.sh
|-- Downloads
|   |-- file1.zip
|   |-- file2.tar.gz
|-- Pictures
|   |-- family
|       |-- img3.jpg
|       |-- img4.jpg
|   |-- vacation
|       |-- img1.jpg
|       |-- img2.jpg
```

1.1 Liệt kê tất cả các tệp trong thư mục Projects của cây thư mục trên.

```
ubuntu@ubuntu-2274802010449:~$ ls -R Documents/Projects
Documents/Projects:
project1 project2

Documents/Projects/project1:
README.md main.sh

Documents/Projects/project2:
data.csv script.sh
ubuntu@ubuntu-2274802010449:~$
```

## 1.2 Viết lệnh để di chuyển tệp assignment1.txt từ thư mục Assignmnets sang thư mục Notes

```
ubuntu@ubuntu-2274802010449:~$ mv Documents/Assignments/assignment1.txt Documents/Notes
ubuntu@ubuntu-2274802010449:~$ tree
.
|-- Documents
|   |-- Assignments
|   |   |-- assignment2.txt
|   |-- Notes
|   |   |-- assignment1.txt
|   |   |-- note1.txt
|   |   |-- note2.txt
|   |-- Projects
|   |   |-- project1
|   |   |   |-- README.md
|   |   |   |-- main.sh
|   |   |-- project2
|   |       |-- data.csv
|   |       |-- script.sh
|-- Downloads
|   |-- file1.zip
|   |-- file2.tar.gz
|-- Pictures
|   |-- family
|   |   |-- img3.jpg
|   |   |-- img4.jpg
|   |-- vacation
|   |   |-- img1.jpg
|   |   |-- img2.jpg
```

## 1.3 Viết lệnh để nén toàn bộ thư mục Pictures thành một tệp nén pictures.zip

```
ubuntu@ubuntu-2274802010449:~$ zip -r pictures.zip Pictures
adding: Pictures/ (stored 0%)
adding: Pictures/family/ (stored 0%)
adding: Pictures/family/img4.jpg (stored 0%)
adding: Pictures/family/img3.jpg (stored 0%)
adding: Pictures/vacation/ (stored 0%)
adding: Pictures/vacation/img2.jpg (stored 0%)
adding: Pictures/vacation/img1.jpg (stored 0%)
```

```
|
|-- pictures.zip
```

1.4 Viết lệnh để tìm tất cả các tệp có phần mở rộng .sh trong cây thư mục trên

```
ubuntu@ubuntu-2274802010449:~$ find Documents/ -name "*.sh"
Documents/Projects/project2/script.sh
Documents/Projects/project1/main.sh
ubuntu@ubuntu-2274802010449:~$
```

1.5 Viết lệnh để sao chép tệp file1.zip từ thư mục Downloads sang thư mục Documents

```
ubuntu@ubuntu-2274802010449:~$ cp Downloads/file1.zip Documents/
ubuntu@ubuntu-2274802010449:~$ tree
.
|-- Documents
|   |-- Assignments
|   |   `-- assignment2.txt
|   |-- Notes
|   |   |-- assignment1.txt
|   |   |-- note1.txt
|   |   `-- note2.txt
|   |-- Projects
|   |   |-- project1
|   |   |   |-- README.md
|   |   |   `-- main.sh
|   |   `-- project2
|   |       |-- data.csv
|   |       `-- script.sh
|   `-- file1.zip
|-- Downloads
|   |-- file1.zip
|   `-- file2.tar.gz
|-- Pictures
|   |-- family
|   |   |-- img3.jpg
|   |   `-- img4.jpg
|   `-- vacation
|       |-- img1.jpg
|       `-- img2.jpg
```

1.6 Viết lệnh để đếm số lượng tệp trong thư mục Assignments.

```
ubuntu@ubuntu-2274802010449:~$ ls -l Documents/Assignments | wc -l
1
ubuntu@ubuntu-2274802010449:~$ tree
.
|-- Documents
|   |-- Assignments
|   |   |-- assignment2.txt
```

1.7 Viết lệnh để xóa tệp data.csv trong thư mục project2.

```
ubuntu@ubuntu-2274802010449:~$ rm Documents/Projects/project2/data.csv
ubuntu@ubuntu-2274802010449:~$ tree
.
|-- Documents
|   |-- Assignments
|   |   |-- assignment2.txt
|   |-- Notes
|   |   |-- assignment1.txt
|   |   |-- note1.txt
|   |   |-- note2.txt
|   |-- Projects
|   |   |-- project1
|   |   |   |-- README.md
|   |   |   |-- main.sh
|   |   |-- project2
|   |   |   |-- script.sh
|   |-- file1.zip
```

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