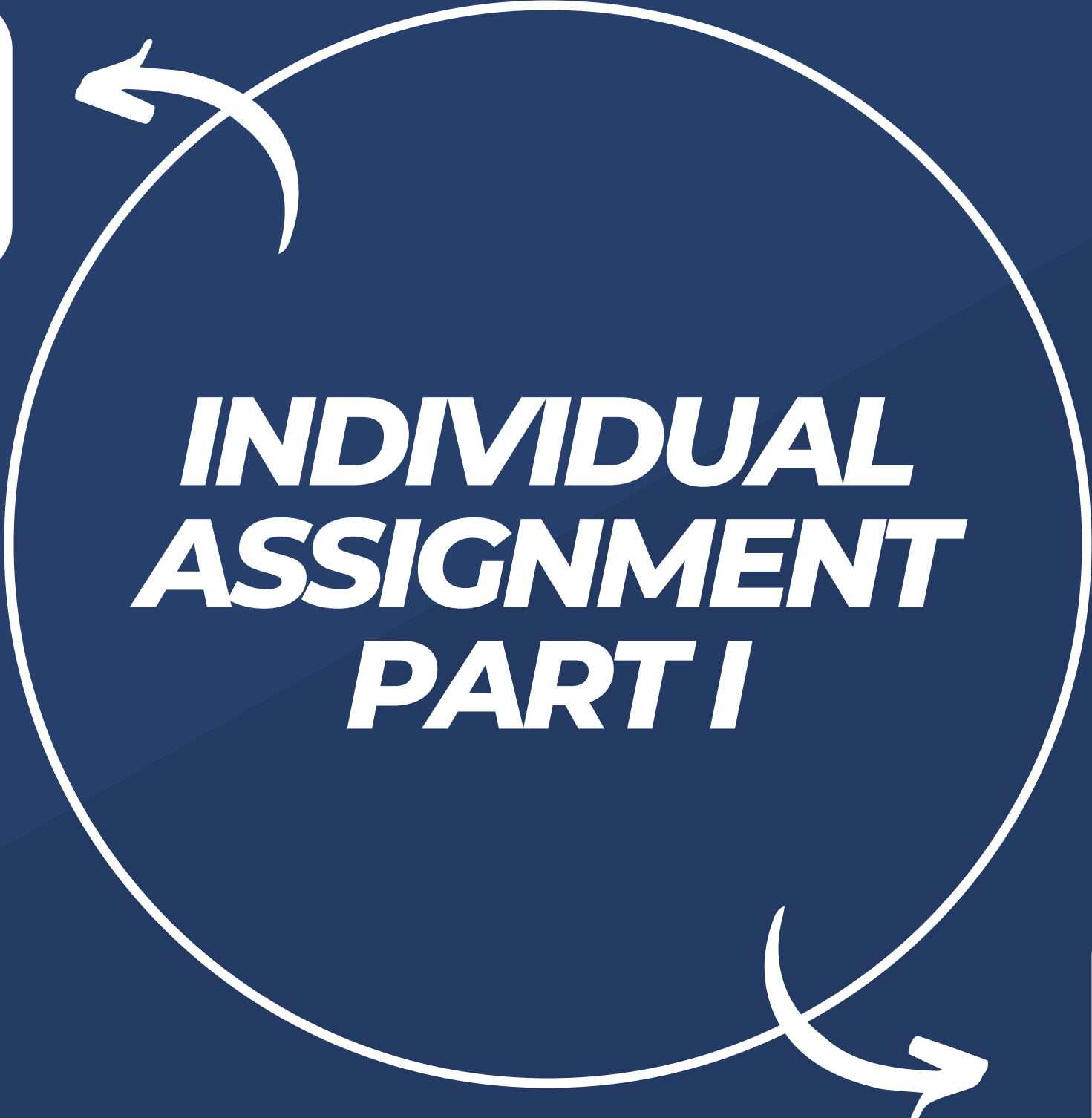


ឈ្មោះ៖ សៀត មិថុនា
បន្ទប់៖ D-106
ពិន្ទុសរុប៖ ១៥ ពិន្ទុ



INDIVIDUAL ASSIGNMENT PART I

សម្ភារៈត្រូវមាន
Ubuntu / CentOS

លំហាត់ទី១ បង្កើត *WORKING DIRECTORY* (១ ពិនុ)

បង្កើត Folder មួយឈ្មោះ LinuxLab15នៅ

ក្នុង Home Directory របស់អ្នក។

- LinuxLab15

Command

```
thona@localhost:~$ cd ~
thona@localhost:~$ mkdir LinuxLab15
thona@localhost:~$ cd LinuxLab15
thona@localhost:~/LinuxLab15$ pwd
/home/thona/LinuxLab15
thona@localhost:~/LinuxLab15$ ls
thona@localhost:~/LinuxLab15$
```



លំហាត់ទី២ បង្កើត *SAMPLE FILES* (១ ពិន្ទុ)

បង្កើត File ចំនួន ៣ ដូចខាងក្រោម៖

- student.txt, course.txt, linux.txt

បន្ទាប់មក បញ្ចូលអត្ថបទណាមួយទៅក្នុង File នីមួយៗ។

ឧទាហរណ៍៖

Linux Lab Exercise > student.txt

Introduction to Linux > course.txt

Archiving Practice > linux.txt

Command

```
thona@localhost:~/LinuxLab15$ ls
thona@localhost:~/LinuxLab15$ echo "Linux Lab Exercise" > student.txt
thona@localhost:~/LinuxLab15$ echo "Introduction to Linux" > course.txt
thona@localhost:~/LinuxLab15$ echo "Archiving Practice" > linux.txt
thona@localhost:~/LinuxLab15$ ls
course.txt  linux.txt  student.txt
thona@localhost:~/LinuxLab15$ cat student.txt
Linux Lab Exercise
thona@localhost:~/LinuxLab15$ cat course.txt
Introduction to Linux
thona@localhost:~/LinuxLab15$ cat linux.txt
Archiving Practice
thona@localhost:~/LinuxLab15$
```



លំហាត់ទី៣ បង្កើត *ARCHIVE FILE* (២ ពិន្ទុ)

បង្កើត Archive File មួយឈ្មោះ backup.tar

ដែលឆ្លុក File ទាំង ៣។

Command

```
thona@localhost:~/LinuxLab15$ tar -cvf backup.tar student.txt course.txt linux.txt
student.txt
course.txt
linux.txt
thona@localhost:~/LinuxLab15$ ls -lh
backup.tar
course.txt
linux.txt
student.txt
thona@localhost:~/LinuxLab15$
```



លំហាត់ទី៤ មើលមាតិកាខាងក្នុង *ARCHIVE* (១ ពិន្ទុ)

បង្ហាញ File ទាំងអស់ដែលមាននៅក្នុង
backup.tar។

Command

```
thona@localhost:~/LinuxLab15$ tar -tvf backup.tar
-rw-r--r--  thona/thona      19  2026-08-28  21:26  student.txt
-rw-r--r--  thona/thona      22  2026-08-28  21:27  course.txt
-rw-r--r--  thona/thona      19  2026-08-28  21:28  linux.txt
thona@localhost:~/LinuxLab15$
```



លំហាត់ទី៥៖ *EXTRACT ARCHIVE* (១ ពិន្ទុ)

បង្កើត Folder មួយឈ្មោះ Extracted ហើយ
Extract backup.tar នៅក្នុង Folder នេះ។

Command

```
thona@localhost:~/LinuxLab15$ ls
backup.tar course.txt Extracted linux.txt student.txt
thona@localhost:~/LinuxLab15$ ls Extracted
thona@localhost:~/LinuxLab15$ mkdir Extracted
tar -xvf backup.tar -C Extracted
ls Extracted
mkdir: cannot create directory 'Extracted': File exists
student.txt
course.txt
linux.txt
course.txt linux.txt student.txt
thona@localhost:~/LinuxLab15$
```



លំហាត់ទី៦៖ *COMPRESS* ដោយប្រើ *GZIP* (២ ពិនុ)

Compress backup.tar ដោយប្រើ gzip។

ផ្ទៀងផ្ទាត់ថា File បានប្តូរទៅជា៖ backup.tar.gz

Command

```
thona@localhost:~/LinuxLab15$ gzip backup.tar
thona@localhost:~/LinuxLab15$ ls -lh
total 16K
-rw-r--r--. 1 thona thona 237 Aug 28 21:32 backup.tar.gz
-rw-r--r--. 1 thona thona  22 Aug 28 21:27 course.txt
drwxr-xr-x. 2 thona thona  60 Aug 28 21:42 Extracted
-rw-r--r--. 1 thona thona  19 Aug 28 21:28 linux.txt
-rw-r--r--. 1 thona thona  19 Aug 28 21:26 student.txt
thona@localhost:~/LinuxLab15$
```



លំហាត់ទី៧៖ *DECOMPRESS GZIP FILE* (១ ពិន្ទុ)

Restore backup.tar.gz ទៅជា backup.tar។

Command

```
thona@localhost:~/LinuxLab15$ ls
backup.tar.gz  course.txt  Extracted  linux.txt  student.txt
thona@localhost:~/LinuxLab15$ gunzip backup.tar.gz
thona@localhost:~/LinuxLab15$ ls
backup.tar  course.txt  Extracted  linux.txt  student.txt
```



លំហាត់ទី៨៖ *COMPRESS* ដោយប្រើ *BZIP2* (២ ពិនុ)

Compress backup.tar ដោយប្រើ bzip2។

ផ្ទៀងផ្ទាត់ថា File បានប្តូរទៅជា៖ backup.tar.bz2

បន្ទាប់មក Restore File មកវិញ។

Command

```
thona@localhost:~/LinuxLab15$ bzip2 backup.tar
thona@localhost:~/LinuxLab15$ bunzip2 backup.tar.bz2
ls -lh
total 28K
-rw-r--r--. 1 thona thona 10K Aug 30 05:07 backup.tar
-rw-r--r--. 1 thona thona 22 Aug 30 05:07 course.txt
drwxr-xr-x. 2 thona thona 60 Aug 30 05:07 Extracted
-rw-r--r--. 1 thona thona 219 Aug 30 05:10 final_backup.tar.gz
-rw-r--r--. 1 thona thona 19 Aug 30 05:07 linux.txt
-rw-r--r--. 1 thona thona 19 Aug 30 05:07 student.txt
```

លំហាត់ទី៩៖ *COMPRESS* ដោយប្រើ *XZ* (២ ពិនុ)

Command

Compress backup.tar ដោយប្រើ xz។

ផ្ទៀងផ្ទាត់ថា File បានប្តូរទៅជា៖ backup.tar.xz

បន្ទាប់មក Restore File មកវិញ។

```
thona@localhost:~/LinuxLab15$ ls
backup.tar.xz  course.txt  Extracted  linux.txt  student.txt
thona@localhost:~/LinuxLab15$ unxz backup.tar.xz
thona@localhost:~/LinuxLab15$ ls
backup.tar  course.txt  Extracted  linux.txt  student.txt
thona@localhost:~/LinuxLab15$
```

លំហាត់ទី១០៖ បង្កើត **COMPRESSED ARCHIVE** ដោយប្រើពាក្យបញ្ជាតែមួយ (២ ពិនុ)

Command

បង្កើត File ឈ្មោះ final_backup.tar.gz ដោយប្រើ

Command តែមួយ។

បន្ទាប់មក ផ្ទៀងផ្ទាត់មាតិកាខាងក្នុង Archive។

```
thona@localhost:~/LinuxLab15$ tar -czvf final_backup.tar.gz student.txt course.txt linux.txt
student.txt
course.txt
linux.txt
thona@localhost:~/LinuxLab15$ tar -tzvf final_backup.tar.gz
-rw-r--r-- thona/thona      19 2026-08-30 05:07 student.txt
-rw-r--r-- thona/thona      22 2026-08-30 05:07 course.txt
-rw-r--r-- thona/thona      19 2026-08-30 05:07 linux.txt
thona@localhost:~/LinuxLab15$
```



