```
__modifier_ob.
 mirror object to mirror
mirror_mod.mirror_object
peration == "MIRROR_X":
irror_mod.use_x = True
mirror_mod.use_y = False
irror_mod.use_z = False
 _operation == "MIRROR_Y"
!rror_mod.use_x = False
 lrror_mod.use_y = True
 lrror mod.use z = False
 _operation == "MIRROR Z"
  rror_mod.use_x = False
  rror_mod.use_y = False
  rror_mod.use_z = True
 selection at the end -add
   _ob.select= 1
   er ob.select=1
   ntext.scene.objects.active
  "Selected" + str(modified
   irror ob.select = 0
  bpy.context.selected_obj
  ata.objects[one.name].se
  int("please select exaction
  --- OPERATOR CLASSES ----
    X mirror to the selected
   ject.mirror_mirror_x"
```

Introduction to Computing and LaTeX:

Linux commands, Bash scripting, Version control (Git)

Dr. Lema LS

What is Linux?

Open-source operating system

Provides command-line interface (CLI)

Uses shells (bash, zsh, etc.)

Basic Linux commands

```
    $ pwd # print working directory

• $ ls # list files
• $ cd # change directory

    $ mkdir dir name # make directory

• $ rmdir dir name # remove directory
• $ cp src dest # copy
• $ mv src dest # move
• $ rm file.txt # remove file
```

Viewing files

```
$ cat file.txt # show file contents
$ less file.txt # view with scroll
$ head file.txt # first 10 lines
$ tail file.txt # last 10 lines
```

File permissions

```
$ ls -l # check permissions
$ chmod 755 f # change permissions
$ chown user f # change owner
```

Process Management

```
$ ps
$ list processes
$ top
$ monitor processes
$ kill PID
# terminate process
```

Search & Find

```
    $ find . -name '*.txt' # find text files
    $ grep 'word' file.txt # search word
    $ which python # locate command
```

Bash Scripting Basics

- #!/bin/bash (#! is the so-called shebang and /bin/bash is the path to the bash interpreter)
- echo "Hello, World!"

Variables & Input

- name="Lema"
- echo "Hello \$name"
- declare num=42 # or "42" to define a integer.

Interactive input

- read -p "Enter your name: " user
- echo "Hello \$user"

Conditionals

```
if [ -d "ICL" ]; then
    echo "ICL exists"
else
    mkdir ICL
    echo "ICL created"
fi
-d "ICL": does the directory ICL exist
```

Loops

```
for i in {1..5}; do
    echo "Number $i"
done
while [ $count -1t 5 ]; do
    echo $count
    ((count++))
done
```

Functions

```
greet() {
    echo "Hello, $1!"
}

greet Lema
output: Hello, Lema!
```

Practical Example

- # Backup script
- tar -czf backup.tar.gz ~/Documents

- # Cleanup logs
- rm -f /var/log/*.log

Wrap-Up & Resources

- Practice on Linux terminal
- Use 'man' pages for help
- Learn more: linuxhandbook.com, bash scripting tutorials

Version Control with Git

```
$ git init
                        # initialize repository
$ git status
                        # check status
$ git add file.txt
                        # stage file
$ git commit -m "msq"
                        # commit changes
$ git log
                        # view history
$ git clone URL
                        # clone repo
$ git push origin main # push changes
$ git pull origin main # pull changes
```