Part A

1. echo "Hello, World!": Prints Hello, World!
2. name="Productive" : Creates a variable name with value Productive
3. touch file.txt: Creates a blank file named file.txt
4. ls -a : ls list all files and directories but ls -a shows all hidden files too
5. rm file.txt: Deletes the file.txt
6. cp file1.txt file2.txt : copies data of file1 -> file2
7. mv file.txt /path/to/directory/:
8. chmod 755 shell.sh: 7 for the owner (user): Read, write, and execute permissions (rwx).5 for the group: Read and execute permissions (r-x).5 for others: Read and execute permissions (r-x).and 0: No permission

SO 755 basically sums that owner has ll three permisions and the group & others has read and execute only.

1. grep “Pattern” file.txt: basically gives the word repeated in the file (It is case dependent)
2. kill PID : It basically kills the process PID
3. mkdir mydir && cd mydir && touch file.txt && echo "Hello, World!" > file.txt && cat file.txt:

create directory mydir->go in directory mydir-> create empty file file.txt ->insert Hello world! In file.txt-> print the file.

1. ls -l | grep ".txt" : gives all the files with .txt extension
2. cat file1.txt file2.txt | sort | uniq: firstly concatenates file1 and file2 and prints it -> Sorts the combined output in ascending order-> Removes duplicate lines from the sorted list, keeping only unique lines.
3. ls -l | grep "^f":

Part 2

Identify True or False:

1. ls is used to list files and directories in a directory. TRUE

2. mv is used to move files and directories. TRUE

3. cd is used to copy files and directories. FALSE

4. pwd stands for "print working directory" and displays the current directory. TRUE

5. grep is used to search for patterns in files. TRUE

6. chmod 755 file.txt gives read, write, and execute permissions to the owner, and read and execute permissions to group and others. TRUE

7. mkdir -p directory1/directory2 creates nested directories, creating directory2 inside directory1 if directory1 does not exist. TRUE

8. rm -rf file.txt deletes a file forcefully without confirmation. TRUE

Identify the Incorrect Commands:

1. chmodx is used to change file permissions. NOPE ONLY CHMOD [CHMODX IS WRONG]

2. cpy is used to copy files and directories. NOPE ONLY CP [CPY IS WRONG]

3. mkfile is used to create a new file. NOPE

4. catx is used to concatenate files. ONLY CAT FILE1.TXT FILE2.TXT

5. rn is used to rename files. NOPE [USE— MV OLDNAME NEWNAME]

Part 3