# **Problem 1:**

### A) Navigate and List:

Answer a: Step 1: cd /

Step 2: cd home

Step 3: Is

Step 4: mkdir LinuxAssignment

#### B) File Management:

**Answer a:** Step 1: cd LinuxAssignment

Step 2: touch file1.txt

Step 3: Is

#### C) Directory Management:

**Answer a:** Step 1: mkdir docs

#### D) Copy and Move Files:

**Answer a:** Step 1: cp file1.txt docs

Step 2: mv file1.txt file2.txt

### E) Permissions and Ownership:

**Answer a:** Step 1: chmod u+rwx,g-wx,o-wx file2.txt

Step 2: chown \$(whoami) file2.txt

#### F) Final Checklist:

**Answer a:** Step 1: ls -l LinuxAssignment

Step 2: ls -l /

## **G)** File Searching:

**Answer a:** Step 1: find . -type f -name "\*.txt"

**Answer b:** Step 1: grep "Hello" file1.txt

## H) System Information:

**Answer a:** Step 1: date

#### I) Networking:

**Answer a:** Step 1: ifconfig

**Answer b:** Step 1: ping example.com

# J) File Compression:

Answer a: Step 1: zip -r docs.zip docs
Answer b: Step 1: unzip docs.zip -d docs

### K) File Editing:

**Answer a:** Step 1: type 'Hello' in text file

**Answer b:** Step 1: sed -i '' 's/Hello/New\_Word/g' file1.txt

# **Problem 2:**

Answer a: head -n 10 data.txt

Answer b: tail -n 5 data.txt

Answer c: head -n 15 numbers.txt

**Answer d:** tail -n 3 numbers.txt

**Answer e:** tr '[:lower:]' '[:upper:]' < input.txt > output.txt

**Answer f:** uniq duplicate.txt

**Answer g:** uniq -c fruit.txt