

Lab 4:

1. Making files with shellscript

```
GNU nano 7.2
read -p "Enter filename to create: " file
if [ -f "$file" ]; then
echo "Error! File already exists."
else
touch "$file"
if [ $? -eq 0 ]; then
echo "File '$file' created successfully."
else
echo "Error creating file."
fi
fi
```

```
ERROR creating file.
ubuntu@ubuntu-OptiPlex-7020:~/sanjana$ nano new.sh
ubuntu@ubuntu-OptiPlex-7020:~/sanjana$ ./new.sh
Enter filename to create: hui
File 'hui' created successfully.
ubuntu@ubuntu-OptiPlex-7020:~/sanjana$ nano new.sh
```

2. Copying files in shellscript

```
GNU nano 7.2
read -p "Enter filename to copy: " source
read -p "Enter new filename (destination): " dest
if [ -f "$source" ]; then
cp "$source" "$dest"
if [ $? -eq 0 ]; then
echo "File copied successfully!"
else
echo "Error copying file. "
fi
fi
```

```
./copy.sh: line 10: syntax error: unexpected end of file
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ nano copy.sh
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ nano copy.sh
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ ./copy.sh
Enter filename to copy: hui
Enter new filename (destination): eww
File copied successfully!
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ nano copy.sh
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ █
Enter new filename (destination): eww
File copied successfully!
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ nano copy.sh
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ nano abc.txt
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ ./copy.sh
Enter filename to copy: abc.txt
Enter new filename (destination): pqr.txt
File copied successfully!
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ █
```

3. To move the files through shellscript

```
nano movefile.sh
read -p "Enter filename to move" movefile
read -p "Enter new name/location: " newloc
if [ -f "$movefile" ]; then
mv "$movefile" "$newloc"
if [ $? -eq 0 ]; then
echo "File moved successfully!"
else
echo "Error moving file."
fi
else
echo "File not found."
fi
```

```
File copied successfully!
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ nano move.sh
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ chmod +x move.sh
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ ./move.sh
Enter filename to moveabc.txt
Enter new name/location: pqr
File moved successfully!
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ nano abc.txt
```

4. To delete the files via shellscript

```
GNU nano 7.2
read -p "Enter filename to delete: " delfile
if [ -f "$delfile" ]; then
rm "$delfile"
if [ $? -eq 0 ]; then
echo "File deleted successfully!"
else
echo "Error deleting file!"
fi
else
echo "Error: File does not exist!"
fi
```

```
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ nano pqr
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ nano delete.sh
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ chmod +x delete.sh
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ ./delete.sh
Enter filename to delete: abc.txt
Error: File does not exist!
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ ./delete.sh
Enter filename to delete: hui
File deleted successfully!
```

5. Combining everything

```
read -p "Enter 1 to create new file, 2 for copying, 3 for deleting, 4 for moving: " num
if [ "$num" -eq 1 ]; then
read -p "Enter filename to create: " file
if [ -f "$file" ]; then
echo "Error! File already exists."
else
touch "$file"
if [ $? -eq 0 ]; then
echo "File '$file' created successfully."
else
echo "Error creating file."
fi
fi
fi

if [ "$num" -eq 2 ]; then
read -p "Enter filename to copy: " source
read -p "Enter new filename (destination): " dest
if [ -f "$source" ]; then
cp "$source" "$dest"
if [ $? -eq 0 ]; then
echo "File copied successfully!"
else
echo "Error copying file."
fi
else
echo "Error: Source file not found."
fi
```

```
if [ "$num" -eq 3 ]; then
    read -p "Enter filename to delete: " delfile
    if [ -f "$delfile" ]; then
        rm "$delfile"
        if [ $? -eq 0 ]; then
            echo "File deleted successfully!"
        else
            echo "Error deleting file!"
        fi
    else
        echo "Error: File does not exist!"
    fi
fi

if [ "$num" -eq 4 ]; then
    read -p "Enter filename to move: " movefile
    read -p "Enter new name/location: " newloc
    if [ -f "$movefile" ]; then
        mv "$movefile" "$newloc"
        if [ $? -eq 0 ]; then
            echo "File moved successfully!"
        else
            echo "Error moving file."
        fi
    else
        echo "File not found."
    fi
fi
```

```
./combine.sh: 6: combine.sh: integer expression expected
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ ./combine.sh
Enter 1 to create new file, 2 for copying, 3 for deleting, 4 for moving^Z
[1]+  Stopped                  ./combine.sh
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ ./combine.sh
Enter 1 to create new file, 2 for copying, 3 for deleting, 4 for moving: 1
Enter filename to create: hey
File 'hey' created successfully.
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ ./combine.sh
Enter 1 to create new file, 2 for copying, 3 for deleting, 4 for moving: 2
Enter filename to copy: hey
Enter new filename (destination): meow
File copied successfully!
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ ./combine.sh
Enter 1 to create new file, 2 for copying, 3 for deleting, 4 for moving: 4
Enter filename to move: hey
Enter new name/location: meow
File moved successfully!
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ ./combine.sh
Enter 1 to create new file, 2 for copying, 3 for deleting, 4 for moving: 4
Enter filename to move: ^Z
[2]+  Stopped                  ./combine.sh
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ ./combine.sh
Enter 1 to create new file, 2 for copying, 3 for deleting, 4 for moving: 3
Enter filename to delete: meow
File deleted successfully!
ubuntu@ubuntu-OptiPlex-SFF-7020:~/sanjana$ nano combine.sh
```