

## Directory and File Manipulation Commands

### 1. Create directory hierarchy:

bash

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```
mkdir -p DOS_Regdno/DOSass1/dir1
```

### 2. Create another directory dir2 in DOSass1:

bash

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```
mkdir DOS_Regdno/DOSass1/dir2
```

### 3. Make dir2 the current working directory:

bash

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```
cd DOS_Regdno/DOSass1/dir2
```

### 4. Delete dir2 when in DOS\_Regdno:

bash

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```
cd ../.. # Navigate back to DOS_Regdno
```

```
rmdir DOSass1/dir2
```

### 5. Create file file1 inside dir1 and write personal details:

bash

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```
cd DOS_Regdno/DOSass1/dir1
```

```
cat > file1 <<EOL
```

```
[Your Name]
```

```
[Your RegdNo]
```

```
[Your Branch]
```

```
[Your Semester]
```

```
[Your Section]
```

```
EOL
```

```
cat file1 # Display the content of file1
```

### 6. Create file file2 inside dir1 and write semester-wise SGPA:

bash

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```
cat > file2 <<EOL
```

Semester 1: SGPA

Semester 2: SGPA

Semester 3: SGPA

...

EOL

**7. Create file3 merging content of file1 and file2:**

bash

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```
cat file1 file2 > file3
```

**8. Rename file2 to markinfo:**

bash

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```
mv file2 markinfo
```

**9. Copy content of file1 to reginfo:**

bash

Copy code

```
cp file1 reginfo
```

**10. Display inode values of file1, markinfo, reginfo:**

bash

Copy code

```
ls -li file1 markinfo reginfo
```

**11. Delete file1:**

bash

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```
rm file1
```

**12. Count lines, words, characters in markinfo:**

bash

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wc markinfo

**13. Create Personalinfo file and write details:**

bash

Copy code

```
cat > Personalinfo <<EOL
```

```
[Your Name]
```

```
[Your RegdNo]
```

```
[Your Address]
```

```
EOL
```

**14. Display markinfo in reverse order:**

bash

Copy code

```
tac markinfo
```

**15. Check cmp and diff between reginfo and Personalinfo:**

bash

Copy code

```
cmp reginfo Personalinfo
```

```
diff reginfo Personalinfo
```

**16. Count the number of files in the current directory:**

bash

Copy code

```
ls | wc -l
```

**Permission and File Management Commands**

**17. Include all file names in filelist excluding filelist itself:**

bash

Copy code

```
ls > filelist
```

```
grep -v filelist filelist > temp && mv temp filelist
```

**18. Grant write permission to all users for reginfo:**

bash

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```
chmod a+w reginfo
```

**19. Remove write permission for group users from reginfo:**

```
bash
```

Copy code

```
chmod g-w reginfo
```

**20. Set rwx permissions for all users on reginfo:**

```
bash
```

Copy code

```
chmod 777 reginfo
```