

UNIX ASSIGNMENT

Bhogyam Likhitha

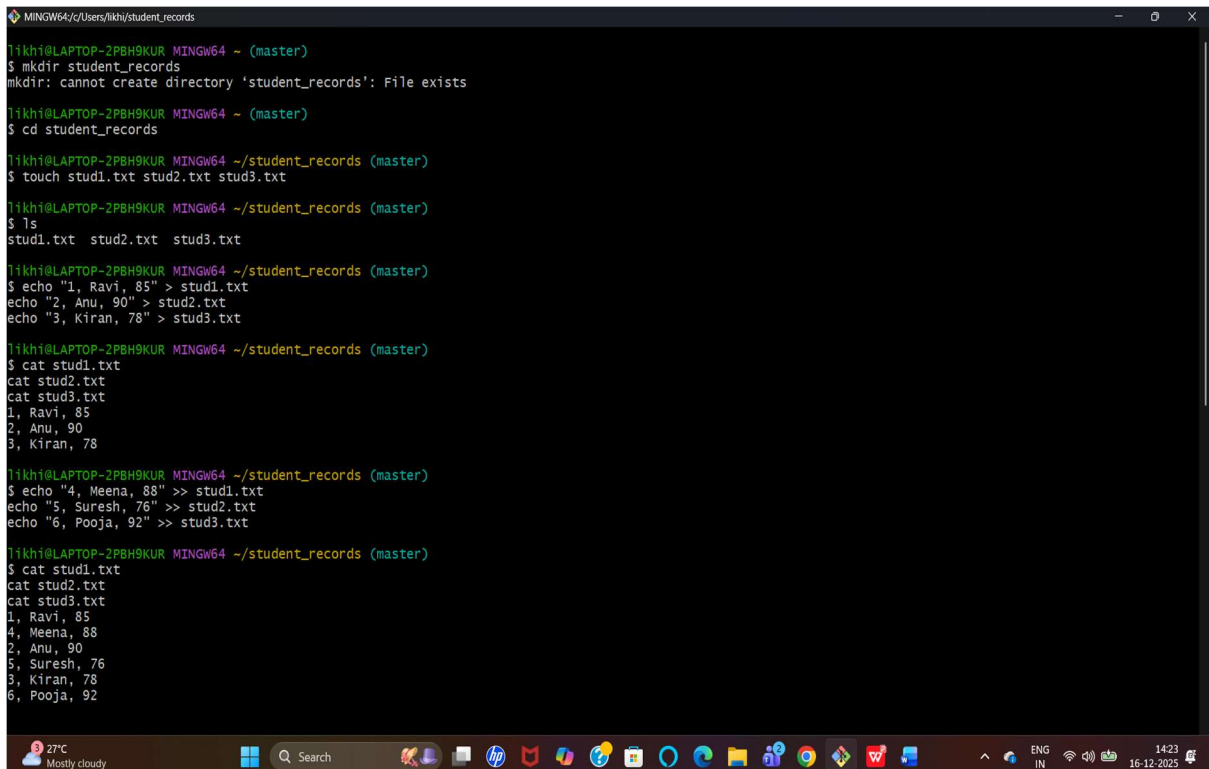
Create a directory called student_records. Inside it, create three files:

- stud1.txt
- stud2.txt
- stud3.txt

id, name, marks

Tasks

1. Create directory
2. Create files
3. Insert sample data
4. Display contents of all files
5. Append one more student record to each file



```
MINGW64/c/Users/likhi/student_records

1ikhhi@LAPTOP-2PBH9KUR MINGW64 ~ (master)
$ mkdir student_records
mkdir: cannot create directory 'student_records': File exists

1ikhhi@LAPTOP-2PBH9KUR MINGW64 ~ (master)
$ cd student_records

1ikhhi@LAPTOP-2PBH9KUR MINGW64 ~/student_records (master)
$ touch stud1.txt stud2.txt stud3.txt

1ikhhi@LAPTOP-2PBH9KUR MINGW64 ~/student_records (master)
$ ls
stud1.txt  stud2.txt  stud3.txt

1ikhhi@LAPTOP-2PBH9KUR MINGW64 ~/student_records (master)
$ echo "1, Ravi, 85" > stud1.txt
echo "2, Anu, 90" > stud2.txt
echo "3, Kiran, 78" > stud3.txt

1ikhhi@LAPTOP-2PBH9KUR MINGW64 ~/student_records (master)
$ cat stud1.txt
cat stud2.txt
cat stud3.txt
1, Ravi, 85
2, Anu, 90
3, Kiran, 78

1ikhhi@LAPTOP-2PBH9KUR MINGW64 ~/student_records (master)
$ echo "4, Meena, 88" >> stud1.txt
echo "5, Suresh, 76" >> stud2.txt
echo "6, Pooja, 92" >> stud3.txt

1ikhhi@LAPTOP-2PBH9KUR MINGW64 ~/student_records (master)
$ cat stud1.txt
cat stud2.txt
cat stud3.txt
1, Ravi, 85
4, Meena, 88
2, Anu, 90
5, Suresh, 76
3, Kiran, 78
6, Pooja, 92
```

Assignment: Working With Permissions

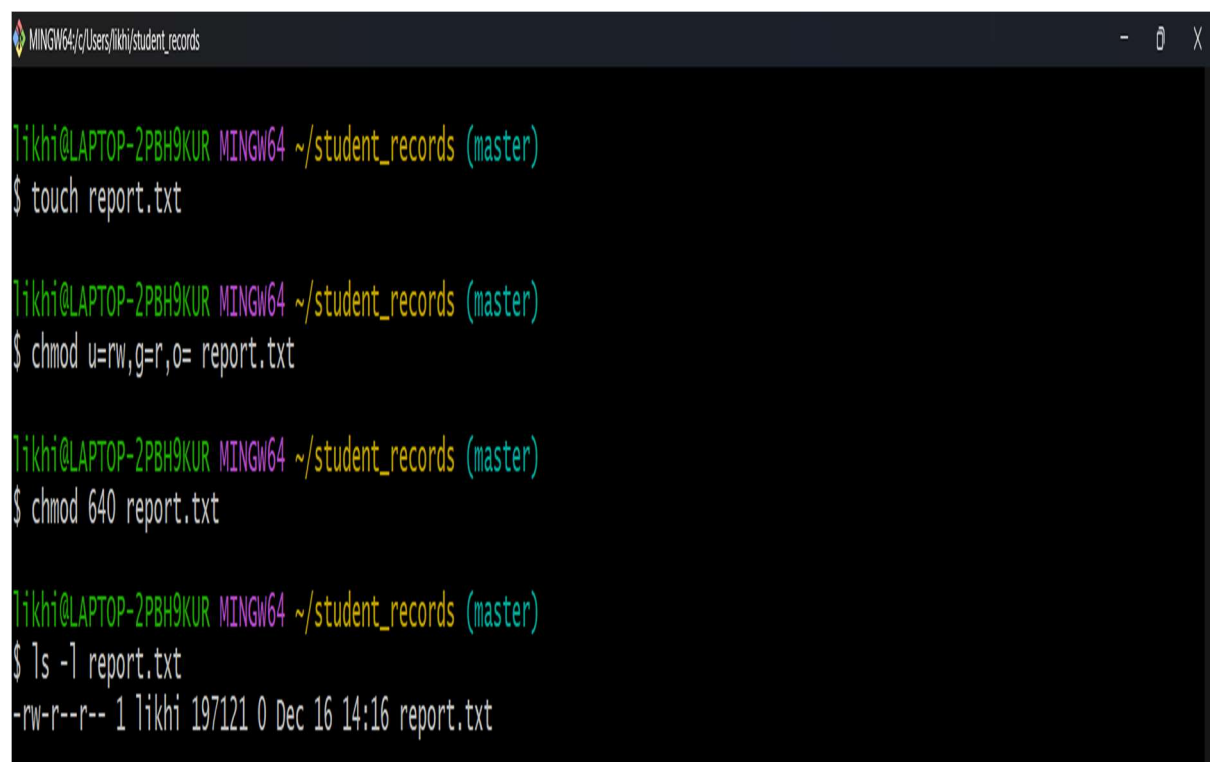
Problem Statement

Create a file report.txt and change its permissions so that:

- Owner: read + write
- Group: read only
- Others: no permission

Tasks

1. Use chmod symbolic mode
2. Use chmod numeric mode
3. Verify permissions using ls -l



```
MINGW64~/c:/Users/likhi/student_records - 0 X
likhi@LAPTOP-2PBH9KUR MINGW64 ~/student_records (master)
$ touch report.txt

likhi@LAPTOP-2PBH9KUR MINGW64 ~/student_records (master)
$ chmod u=rw,g=r,o= report.txt

likhi@LAPTOP-2PBH9KUR MINGW64 ~/student_records (master)
$ chmod 640 report.txt

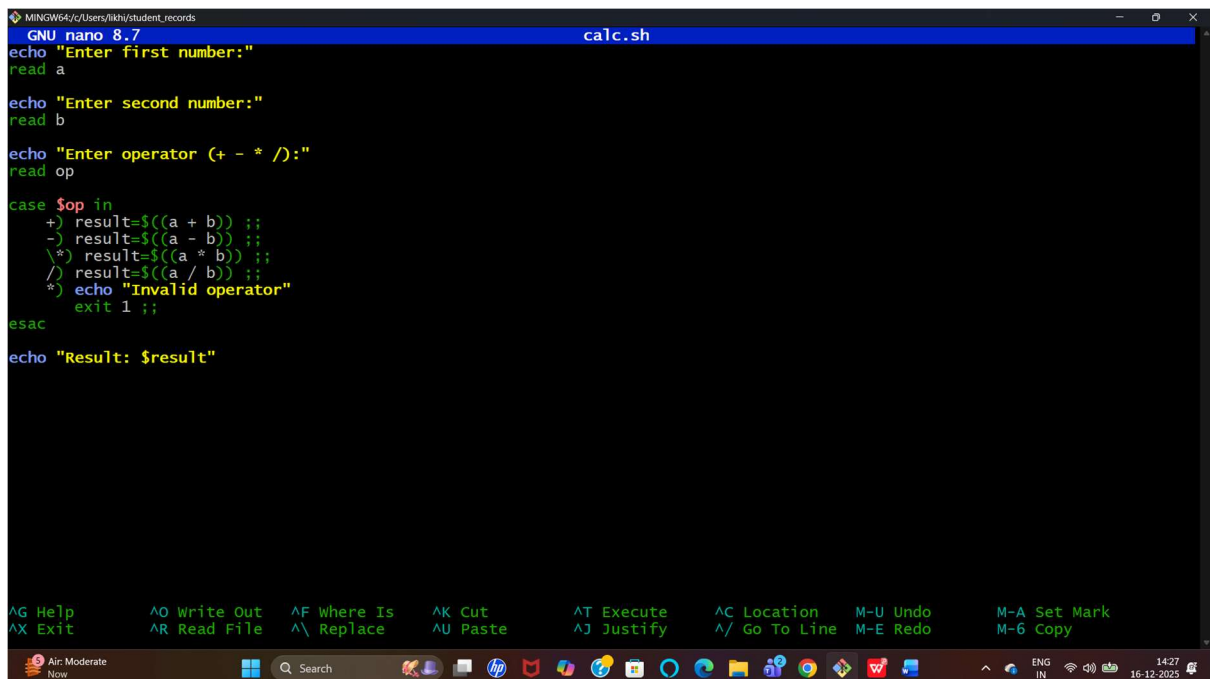
likhi@LAPTOP-2PBH9KUR MINGW64 ~/student_records (master)
$ ls -l report.txt
-rw-r--r-- 1 likhi 197121 0 Dec 16 14:16 report.txt
```

Assignment: Shell Script – Simple Calculator

Problem Statement

Write a shell script calc.sh that:

- Accepts two numbers and an operator (+, -, *, /)
- Performs the requested operation
- Displays the result



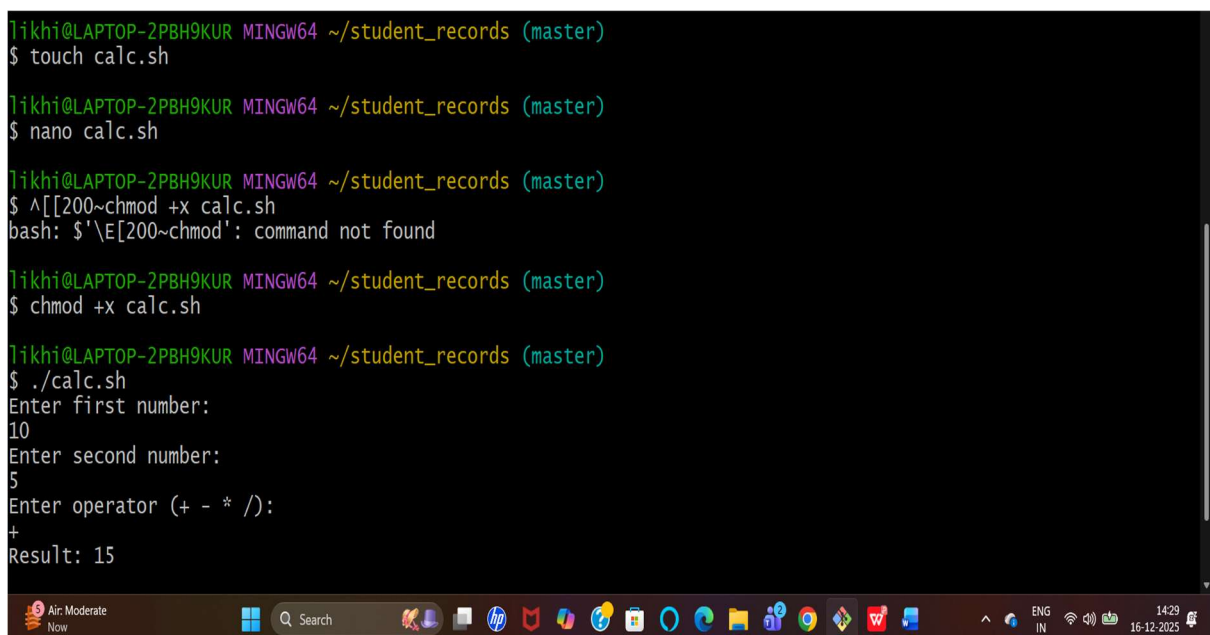
```
GNU nano 8.7 calc.sh
echo "Enter first number:"
read a

echo "Enter second number:"
read b

echo "Enter operator (+ - * /):"
read op

case $op in
  +) result=$((a + b)) ;;
  -) result=$((a - b)) ;;
  \*) result=$((a * b)) ;;
  /) result=$((a / b)) ;;
  *) echo "Invalid operator"
     exit 1 ;;
esac

echo "Result: $result"
```



```
likhi@LAPTOP-2PBH9KUR MINGW64 ~/student_records (master)
$ touch calc.sh

likhi@LAPTOP-2PBH9KUR MINGW64 ~/student_records (master)
$ nano calc.sh

likhi@LAPTOP-2PBH9KUR MINGW64 ~/student_records (master)
$ ^[[200~chmod +x calc.sh
bash: $'\E[200~chmod': command not found

likhi@LAPTOP-2PBH9KUR MINGW64 ~/student_records (master)
$ chmod +x calc.sh

likhi@LAPTOP-2PBH9KUR MINGW64 ~/student_records (master)
$ ./calc.sh
Enter first number:
10
Enter second number:
5
Enter operator (+ - * /):
+
Result: 15
```