

Linux & Shell Scripting Assignments

Assignment 1: Create & Manage Files

```
Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3 (master)
$ mkdir student_records

Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3 (master)
$ cd student_records

Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3/student_records (master)
$ touch stud1.txt stud2.txt stud3.txt

Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3/student_records (master)
$ echo "101 Rahul 85" > stud1.txt

Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3/student_records (master)
$ echo "102 Anita 90" > stud2.txt

Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3/student_records (master)
$ echo "103 Ravi 78" > stud3.txt

Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3/student_records (master)
$ cat stud1.txt
101 Rahul 85

Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3/student_records (master)
$ cat stud2.txt
102 Anita 90

Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3/student_records (master)
$ cat stud3.txt
103 Ravi 78

Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3/student_records (master)
$ echo "201 Sita 88" >> stud1.txt

Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3/student_records (master)
$ echo "202 Amit 92" >> stud2.txt

Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3/student_records (master)
$ echo "203 Neha 80" >> stud3.txt

Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3/student_records (master)
$ cat stud1.txt
101 Rahul 85
201 Sita 88

Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3/student_records (master)
$ cat stud2.txt
102 Anita 90
202 Amit 92

Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3/student_records (master)
$ cat stud3.txt
103 Ravi 78
203 Neha 80
```

Assignment 2: Working With Permissions

```
Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3/student_records (master)
$ touch report.txt
```

```
Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3/student_records (master)
$ chmod u=rw,g=r,o= report.txt
```

```
Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3/student_records (master)
$ chmod 640 report.txt
```

```
Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3/student_records (master)
$ ls -l report.txt
-rw-r--r-- 1 Vcom 197121 0 Jan 11 01:22 report.txt
```

Assignment 3: Shell Script – Simple Calculator

```
Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3/student_records (master)
$ #!/bin/bash
```

```
Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3/student_records (master)
$ echo "Enter first number:"
Enter first number:
```

```
Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3/student_records (master)
$ read a
10
```

```
Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3/student_records (master)
$ echo "Enter second number:"
Enter second number:
```

```
Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3/student_records (master)
$ read b
5
```

```
Vcom@DESKTOP-IIU10M4 MINGW64 /e/Java/Tebin/Git_assignment3/student_records (master)
$ case $op in
>
> +) echo "Result: $((a+b))";;
> -) echo "Result: $((a-b))";;
> *) echo "Result: $((a*b))";;
> /) echo "Result: $((a/b))";;
> *) echo "Invalid operator";;
> esac
Result: 50
```