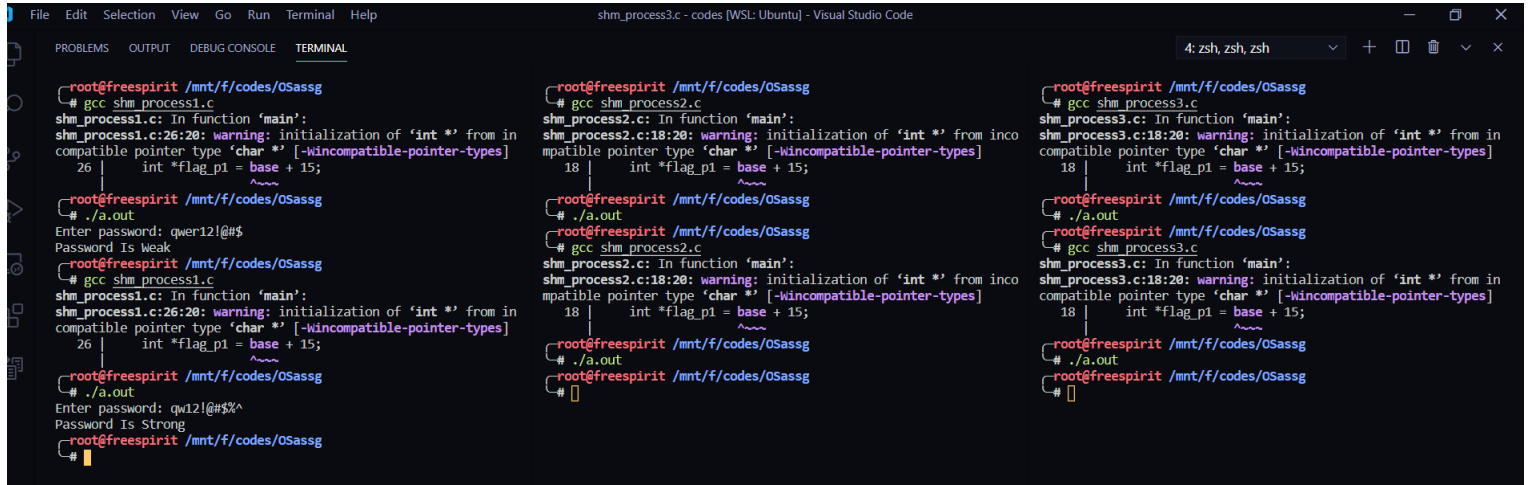


OS Assignment 2

Question 2 – Readme

IPC using shared memory:



```
root@freespirt /mnt/f/codes/OSassg
# gcc shm_process1.c
shm_process1.c: In function 'main':
shm_process1.c:26:20: warning: initialization of 'int *' from incompatible pointer type 'char *' [-Wincompatible-pointer-types]
26 |     int *flag_p1 = base + 15;
    |                    ^~~~~
root@freespirt /mnt/f/codes/OSassg
# ./a.out
Enter password: qwer12!@#%
Password Is Weak
root@freespirt /mnt/f/codes/OSassg
# gcc shm_process2.c
shm_process2.c: In function 'main':
shm_process2.c:18:20: warning: initialization of 'int *' from incompatible pointer type 'char *' [-Wincompatible-pointer-types]
18 |     int *flag_p1 = base + 15;
    |                    ^~~~~
root@freespirt /mnt/f/codes/OSassg
# ./a.out
root@freespirt /mnt/f/codes/OSassg
# gcc shm_process3.c
shm_process3.c: In function 'main':
shm_process3.c:18:20: warning: initialization of 'int *' from incompatible pointer type 'char *' [-Wincompatible-pointer-types]
18 |     int *flag_p1 = base + 15;
    |                    ^~~~~
root@freespirt /mnt/f/codes/OSassg
# ./a.out
root@freespirt /mnt/f/codes/OSassg
#
```

Processes:

- shm_process1.c - Reads a password(string) from the user, displays whether password is strong or weak
- shm_process2.c - Calculates the number of alphanumeric & special characters
- shm_process3.c - Calculates strength of password

Shared Memory:

pw: password (10 characters)

flag_p1 : process 1 lock

flag_p2 : process 2 lock

flag_p3 : process 3 lock

alnum : number of alphanumeric characters

spc : number of special characters

strength: strength of password