

CIS 452 02 – Assignment 8 – Gabe Baksa

1. **What values do each of the following hold (create print statements to output each of the following)?**

IRUSR: 256

IWUSR: 128

IXUSR: 64

IRGRP: 32

IWGRP: 16

IXGRP: 8

IROTH: 4

IWOTH: 2

IXOTH: 1

2. **What permissions does 0600 represent?**

6 for the owner: This means the owner has read and write permissions (4 for read + 2 for write = 6).

3. **What base (binary, octal, decimal, hex) are the above numbers?**

binary

4. **Create a semaphore with Read only permissions for the user, does your program still run correctly?**

Yes, my program still worked, but it may encounter issues. Without read permissions, other processes cannot check the semaphore's value, which can lead to synchronization problems.

5. **Create a semaphore with Write only permissions for the user, does your program still run correctly?**

Yes, my program still functioned correctly, but it might face issues in practice. While it can perform necessary write operations, other processes would be unable to read the semaphore's state, potentially disrupting proper synchronization and leading to race conditions.