

Design Document

semaphores.py

- `randomRequest()`:
 - Description: Selects a random number from 1 to 3 which translates to the 3 computer resources that are being accessed. 1 = printer 2 = plotter 3 = scanner
 - Parameters: None
 - Function: Random number generator between 1-3
- `computerResource()`:
 - Description: Function that prints which of the following computer resources are being requested
 - Parameters: numID - int between 1-3 pulled from `randomRequest()`
 - Function: Prints the requested semaphore resource type
- `task()`:
 - Description: Function that if available will request the semaphore and returns it based on its corresponding value
 - Parameters: numID - int between 1-3 pulled from `randomRequest()`
 - Function: Requests the semaphore resource if its available