

The lab is programmed in python so there is no compiling necessary, just run the lab7.py and follow the prompts.

The following test files are provided:

test.txt – the example provided

test1.txt – has no deadlock

test2.txt – has a deadlock with one process

```
PS C:\Users\astro\Desktop\Code\Git\OS\Lab7> python lab7.py
Enter the path of the data file or enter x to exit: test.txt
Deadlock detected and contains the following processes: [1, 2, 3, 4]
Enter the path of the data file or enter x to exit: test2.txt
No deadlock detected using this sequence: [0, 2, 4, 1, 3]
Enter the path of the data file or enter x to exit: test3.txt
Deadlock detected and contains the following processes: [2]
Enter the path of the data file or enter x to exit: x
PS C:\Users\astro\Desktop\Code\Git\OS\Lab7>
```

If a deadlock is detected, the program prints the processes involved in the deadlock.

If there is no deadlock, the program prints the successful sequence.