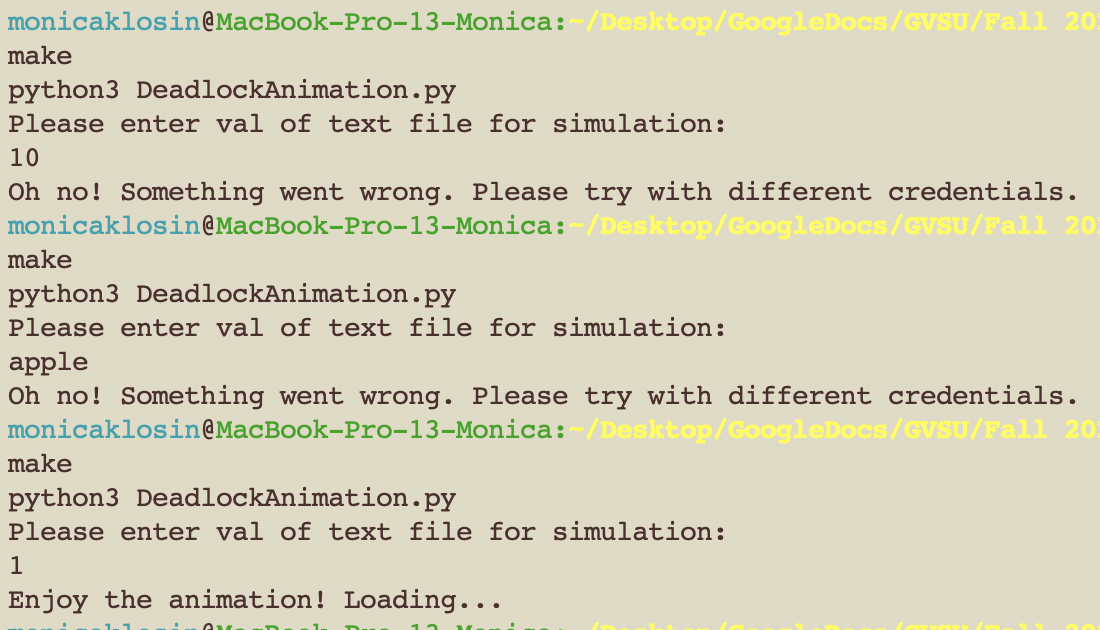
**CS 452 Project -- Resource Manager**

Monica Klosin

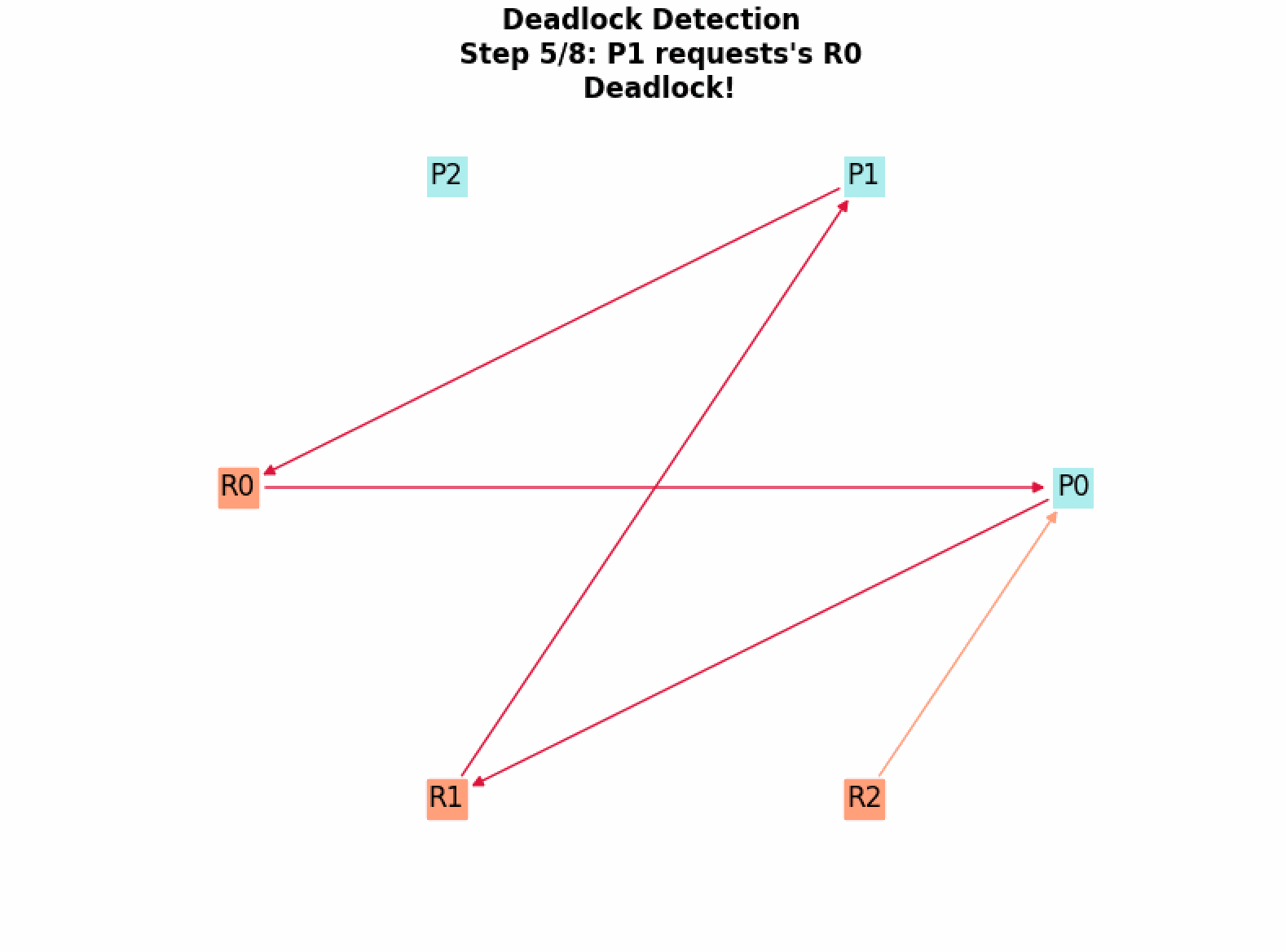
**Repo to see animated simulation (in README):** <https://github.com/klosinm/Operating-Systems>

**To Run:**

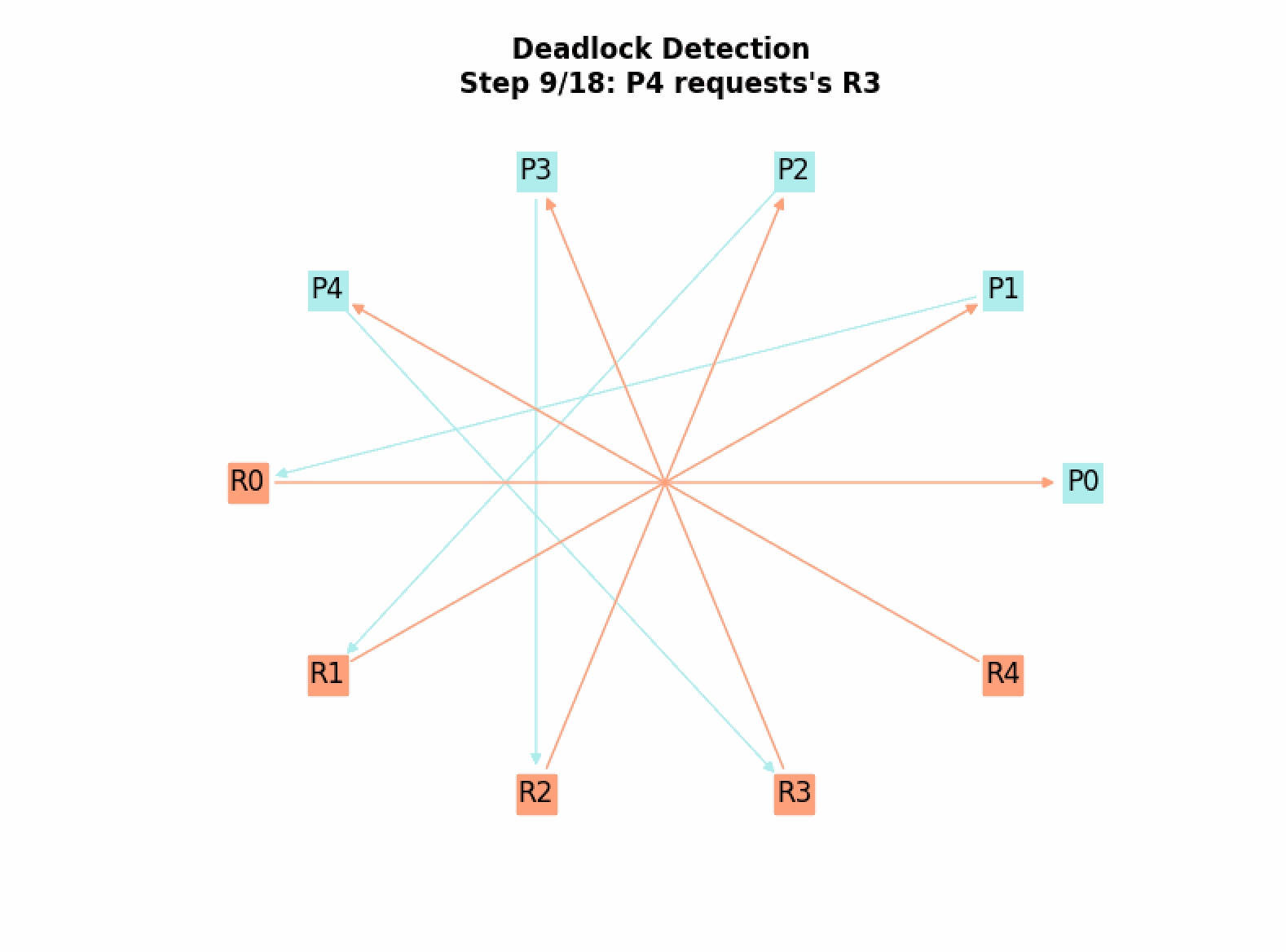
1. in directory, type make
2. Since all file names for this program are written as “scenario-{number}.txt” , user then provides an integer to fill in for {number} to choose which file they want the simulation to run with
   1. screenshot below shows test cases for incorrect and correct user input



**Screenshots of Program:**



run with scenario-2.txt



run with scenario-3.txt

**Extra Credit:**

I decided to try to implement the detect-and-recover policy functionality.

If there is deadlock detected, you kill the processes involved in the deadlock one by one. After each deletion of one process, you check for deadlock again until there is no more deadlock and let the program continue as normal.

Strategy:

To implement (plan):

* Take the cycle created via the list(nx.simple\_cycles(G))
  + set this command to variable T (T = list(nx.simple\_cycles(G)))
* grab the first created edge part of the cycle and remove it via remove\_edge
* of this list T[0][0] and remove it via node\_remove