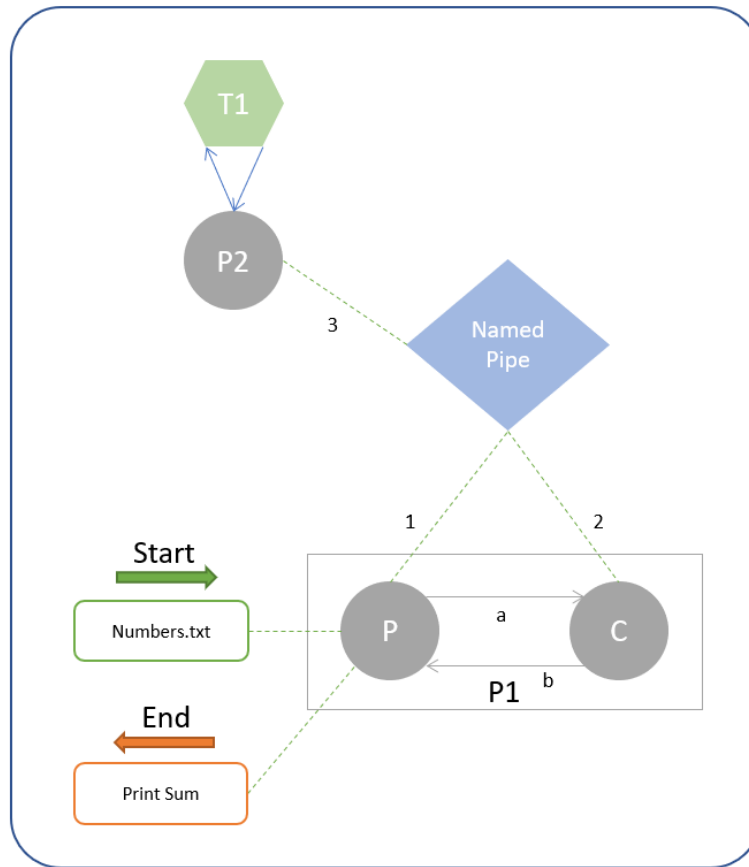# *Umair's Counter*

- ▪ *P1 program:*
    - • *Parent receives the name of a file as a command line argument.*
    - • *Parent sends the name to a named pipe [1] and Parent also sends a signal to Child [a] that it has sent contents.*
    - • *Child should only try to read an output from named pipe, if it has received a signal from Parent.*
    - • *After reading the results from named pipe [2], Child sends the results to Parent [b].*
    - • *Parent should display the results.*

- ▪ *P2 program:*
    - • *Program reads the filename from named pipe [3]*
    - • *Program initializes threads. (the no. of threads = the no. of rows in the file)*
    - • *Each thread is given a row of the file.*
    - • *Each thread returns the sum of all the numbers in that row.*
    - • *Program adds the results of all the threads to get a total_sum.*
    - • *Program writes that total_sum to the named pipe [3], and displays it on the screen before terminating.*

- ▪ *Execution:*
  Type "make run" in terminal. Ignore the warnings and match your results with the provided results.

Note: make use of wait to achieve synchronization.