**Assignment 3.2**

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1. **Reader and Writer**

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| #!/bin/bash  # Create named pipes for communication between reader and writer processes  mkfifo data\_fifo  mkfifo read\_signal\_fifo  # Writer process  writer() {      while true; do          echo "Writing data..."          echo "Data written" > data\_fifo          sleep 1      done  }  # Reader process  reader() {      while true; do          if read line < data\_fifo; then              echo "Reading data: $line"              echo "Data read" > read\_signal\_fifo          fi      done  }  # Main program  writer &  writer\_pid=$!  reader &  reader\_pid=$!  # Cleanup function to remove FIFOs when script exits  cleanup() {      kill $writer\_pid $reader\_pid      rm -f data\_fifo read\_signal\_fifo  }  # Trap cleanup function on script exit  trap cleanup EXIT  # Wait for child processes to finish  Wait |

**Output:**

