Lab5 - Exercise

1. **Implement a Socket Program for Data Transmission with Odd Parity**
   Objective: Develop a client-server application using TCP socket programming, where:

   a. **Sender Process (Client): Converts a given binary dataword into a codeword by adding an odd parity bit and transmits it to the receiver**
   b. **Receiver Process (Server): Receives the codeword, checks for errors using odd parity, and extracts the original dataword.**
   c. **If the Receiver Process extracts the original dataword, then +VE ack is sent to Sender Process.**

2. **Task: Implement a Socket Program for Data Transmission with Checksum Verification**
   Objective: Develop a client-server application using socket programming, where:
   a) **Sender Process (Client): Computes a checksum for a given dataword and transmits both the dataword and checksum to the receiver.**
   b) **Receiver Process (Server): Computes the checksum upon receiving the data and verifies its correctness.**