Inter Process Communication

1. Write a C program using Pipes for the following
   a) Create 2 Process (Child and Parent)
   b) Child Process must request the Parent process to compute the factorial of a number.
   c) Child Process must read a number from the user.

2. Write a C Program using Named Pipes (FIFOS)
   a) Create 2 Process(Sender and Receiver)(Un related – i.e, belonging to 2 separate applications)
   b) Sender process has to send u'r details (RegNo, Name, Course, School) to the Receiver process.

3. Use message queues in a C programme to construct a basic conversation programme between two unrelated, independent processes. Additionally, the programme must terminate until one of the processes posts the message "stop."

4. Write a C Program using Shared Memory b/w 2 processes for exchanging the below message

   "Inter-Process Communication (IPC) plays a vital role in the world of operating systems, enabling different processes to communicate and cooperate with each other. IPC is crucial for multi-tasking, enabling processes to share data, synchronize their activities, and collaborate effectively"