# ****Assignment****

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**Course:** Operating Systems  
**Course Code:** CSA0403  
**Experiment No.:** 9

Illustrate the concept of inter-process communication using shared memory with a C program.

### ****AIM****

The aim of this program is to illustrate the concept of **Inter-Process Communication (IPC) using Shared Memory**, where two processes can exchange data by reading and writing to a common memory segment.

### ****ALGORITHM****

**For the Writer Process:**

Create a shared memory segment using shmget().

Attach the shared memory to the process using shmat().

Write data into the shared memory.

Detach the shared memory using shmdt().

**For the Reader Process:**

Access the existing shared memory segment using shmget().

Attach the shared memory to the process using shmat().

Read data from the shared memory.

Detach the shared memory using shmdt().

Destroy the shared memory using shmctl().

PROGRAM AND OUTPUT: