29 1/3/24 EXPERIMENT 6 IPC USING SHARED MEMORY-SENDER & RECEIVER PROCESSES AIM TO implement IPC ung shared memory with render and receiver processes. ALMORITHM FOR SENDER PROCESS STEP O: JTART STEP 1: The variables are declared id- stores the identifier for hard memory regment 'sm'- represents a point to maria memory regment. buf - A buffer 10 Hore input data. STEP 2: shmget() function viates a new shared memory signers or gets the identifier of an existing one · (buy-t) 1222'- Unique bey used 10 adentify the shared memory segment. 1024'- Hre of shared memory (bytes) '0666 | IPC_CREAT'- are the permissions for the mared memory segment (Octal) 'IPC-CREAT' flag inducates that the showed memory is ereated if it doesn't already exist. STEP 3: Print the 1d of shared memory segment.

STEP 4: shmath funcion attaches the shared memory segment identified id to address there of called brocen. STEP 5 Punt me address where me shared memory segment is astached in the process address STEP 6: Prompt the user to enter the data and read it into the buffer buf uing the Made function STEP7: copy the data from but to the sharld memory pointed by 'im' ung snepy () function. step 8: Punt the data that was unitlen so the shared memory segment. ALMORITHM FOR RECEIVER PROCESS STEP O: START STEP 1: Variables are declared 'id'- I densifier for shared memory kgment 'sm'- pointer so the marid memory righent buf'- Buffer 10 Hore data mad from shall menory 'a' & b' are variables to you parred integers for addition.

identifier of the existing shared memory segment.

STEP 3: shmarl) attains the mared wemong signent to the address mare

of me calling process. STEP 4: Print me address where the shared memory segment is attached in the process address spare. STEP 5: Plad data from mared memory into the buffer buf unny knopy () and puris the data read. STEP6: a = buf [0] - 0' and b = buf[2] - 0' extracts the integers from bufor and converts character digits to integers STEP 7: Sum is puried after adding atb. STEP 8: END

Programs successfully excelled and output obtained.