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IMPLEMENTATION OF INTER PROCESS COMMUNICATION

AIM

Program to implement inter process communication using shared memory.

PROGRAM

IPC1.C

```
#include <stdio.h>
#include <stdlib.h>
#include <sys/ipc.h>
#include <sys/types.h>
#include <string.h>
#include <unistd.h>
int main ()
{
   int i, shmid;
   void *shrdMmry;
   char data[100];
   shmid = shmget (key_t)5324, 1024, 0666 | IPC_CREAT.);
   printf("Key of shared memory is %d\n", shmid);
   shrdMmry = shmat (shmid, NULL, 0);
   printf(" Process attatched at %p \n", shrdMmry);
   printf(" Enter the data to write to shared Memory \n");
   read(0, data, 100);
   strcpy (shrdMmry, data);
}
```

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IPC 2.C

```
#include <stdio.h>
#include <stdlib.h>
#include <sys/shm.h>
#include <sys/ipc.h>
#include <sys/types.h>
#include <string.h>
#include <unistd.h>
int main()
{
  int i, shmid;
  void * shrdMmry;
  char data[100];
  printf("Key of Shared Memory is %d \n", shmid);
  shrdMmry = shmat(shmid, NULL, 0);
  printf("Process attatched at %d \n", shrdMmry);
  printf("Data read from shared memory is %s", (char*) shrdMmry);
}
```

Teacher's Signature _____

OUTPUT

IPC 1.C

Key of shared memory is 63.
Process attatched at 0x7fdf7594d0000
Enter the data to write to shared Memory Operating_Systems.

IPC 2.C

Key of Shared Memory is 63.
Process attatched at 0x7f7d5e7e5000
Data read from shared memory is Operating_Systems.