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CODE

```
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <sys/shm.h>
#include <string.h>
int main()
{
   printf("Parent Process In Execution...\n");

   int i;
   void *shared_memory;
   char buff[100];
   int shmid;
   shmid = shmget((key_t)2345, 1024, 0666 | IPC_CREAT);
   printf("Key of shared memory is %d\n", shmid);
   shared_memory = shmat(shmid, NULL, 0);
   printf("Process attached at %p\n", shared_memory);
   printf("Enter some data to write to shared memory\n");
   read(0, buff, 100);
   strcpy(shared_memory, buff);

   pid_t pid;
   if ((pid = fork()) == -1)
   {
      perror("fork");
      exit(1);
   }
   if (pid == 0)
   {
      printf("\nChild Process In Execution...\n");
      printf("\nChild Process Reading Shared Memory...\n");
      printf("\nData : ");
      printf("%s\n", (char *)shared_memory);
      printf("\nChild Process Executed.\n");
   }
    printf("\n Parent Process Executed.\n");

}
```

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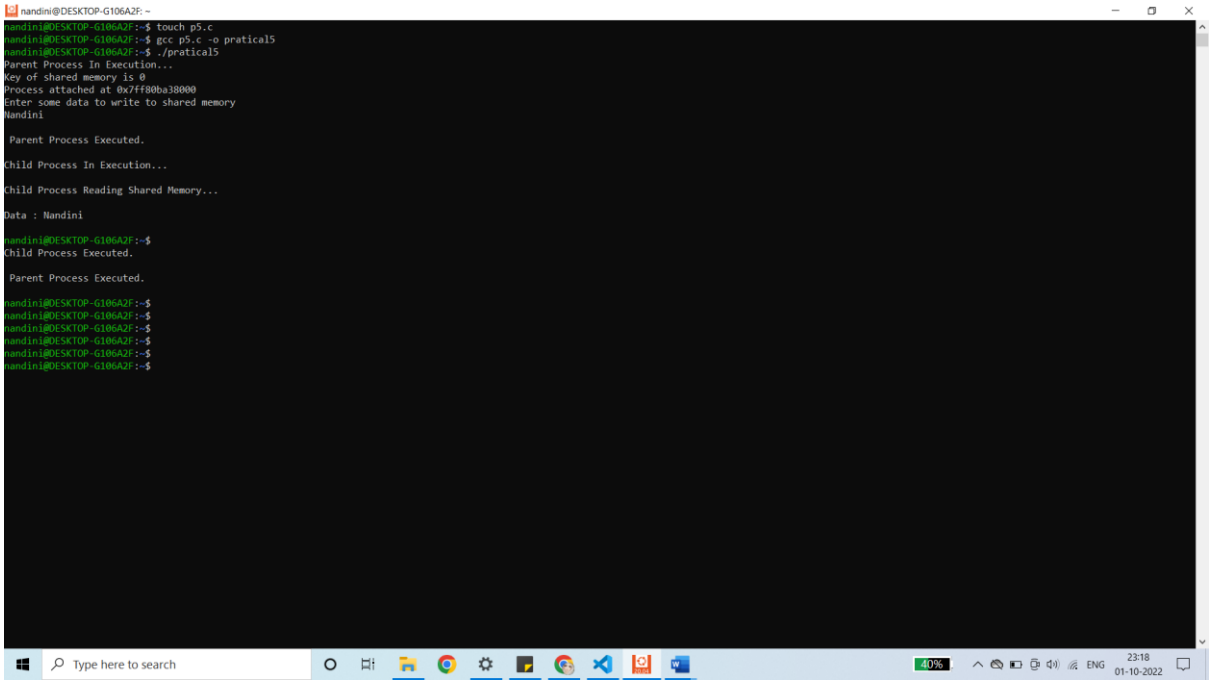
OUTPUT


nandini@DESKTOP-G106A2F: ~
nandini@DESKTOP-G106A2F:~$ touch p5.c
nandini@DESKTOP-G106A2F:~$ gcc p5.c -o pratical5
nandini@DESKTOP-G106A2F:~$ ./pratical5
Parent Process In Execution...
Key of shared memory is 0
Process attached at 0x7ff80ba38000
Enter some data to write to shared memory
Nandini
Parent Process Executed.
Child Process In Execution...
Child Process Reading Shared Memory...
Data : Nandini
nandini@DESKTOP-G106A2F:~$
Child Process Executed.
Parent Process Executed.
nandini@DESKTOP-G106A2F:~$
nandini@DESKTOP-G106A2F:~$
nandini@DESKTOP-G106A2F:~$
nandini@DESKTOP-G106A2F:~$
nandini@DESKTOP-G106A2F:~$
nandini@DESKTOP-G106A2F:~$
Type here to search
40%
ENG
23:18
01-10-2022