10. Write a C program that illustrates two processes communicating using shared memory

Program:

#include<stdlib.h>

#include<unistd.h>

#include<sys/shm.h>

#include<string.h>

#include<stdio.h>

int main()

{

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");

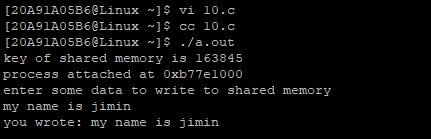
read(0,buff,100);

strcpy(shared\_memory,buff);

printf("you wrote: %s\n",(char\*)shared\_memory);

}

Output:



11. Write C program to create a thread using pthreads library and let it run its function.

Program:

#include<unistd.h>

#include<stdlib.h>

#include<stdio.h>

#include<pthread.h>

void \*mythread(void \*vargp)

{

sleep(1);

printf("welcome to threads\n");

return NULL;

}

int main()

{

pthread\_t tid;

printf("before thread\n");

pthread\_create(&tid,NULL,mythread,NULL);

pthread\_join(tid,NULL);

pthread\_join(tid,NULL);

exit(0);

}

Output:

