

## Interprocess Communication

```
#include<stdio.h>
#include<sys/shm.h>
#include<sys/types.h>
#include<sys/ipc.h>

key_t key;
size_t size;
int * strtaddr;
long int shmid;

main()
{

    printf("\n Enter the key:");
    scanf("%ld",&key);
    printf("\n Enter the size:");
    scanf("%ld",&size);
    shmid=shmget(key , size ,IPC_CREAT|0666);
    if(shmid<0)
        printf("\nError!");
    else
        strtaddr=shmat(shmid,NULL,0);

    int i,j='A';
    for(i=0;i<25;++i)
    {

        *strtaddr++=j;
        j=j+1;
    }
    sleep(5);
}
```

### Program2

```
#include<stdio.h>
#include<sys/shm.h>
#include<sys/types.h>
#include<sys/ipc.h>

key_t key;
size_t size;
int * strtaddr;
long int shmid;

main()
{
```

```
printf("\n Enter the key:");
scanf("%ld",&key);
printf("\n Enter the size:");
scanf("%ld",&size);
shmid=shmget(key , size ,0666);
if(shmid<0)
    printf("\nError!");
else
    strtaddr=shmat(shmid,NULL,0);

int i,j=1;
for(i=0;i<25;++i)
{
    printf(" %c ",*strtaddr++);

}
sleep(5);
}
```

## Output

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Terminal1

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```
42813@user:/mnt/42813/oslab$ gcc -o ipc ipc.c
42813@user:/mnt/42813/oslab$ ./ipc
```

Enter the key:1

Enter the size:1

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Terminal2

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```
42813@user:/mnt/42813/oslab$ ./ipc1
```

Enter the key:1

Enter the size:1

```
A B C D E F G H I J K L M N O P Q R S T U
V W X Y 42813@user:/mnt/42813/oslab$
```

```
42813@user:/mnt/42813/oslab$
```