

```
//Client Code
```

```
//IT18232950
```

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#include <unistd.h>
```

```
#include <sys/shm.h>
```

```
#include <sys/ipc.h>
```

```
#include <sys/types.h>
```

```
#define SHMSZ 20
```

```
void main(){
```

```
    int shmid;
```

```
    key_t key;
```

```
    char *shm,*s;
```

```
    key = 2305;
```

```
    if((shmid=shmget(key,SHMSZ,0666)) < 0){
```

```
        perror("shmget");
```

```
        exit(1);
```

```
    }
```

```
    if((shm=shmat(shmid,NULL,0))==(char *)-1){
```

```
        perror("shmat");
```

```
        exit(1);
```

```
    }
```

```
    for(s=shm;*s!='\0';s++){
```

```
        printf("%d",*s);
```

```
    printf("\n");  
}  
*shm='*';  
exit(0); }
```

```
//Server Code  
//IT18232950
```

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

```
#define SHMSZ 20
```

```
void main(){  
    int myArray[20];  
    int shmid;  
    key_t key;  
    char *shm, *s;  
  
    key=2305;  
  
    if((shmid=shmget(key,SHMSZ,IPC_CREAT | 0666)) < 0){  
  
        perror("shmget");  
        exit(1);  
    }  
    if((shm=shmat(shmid,NULL,0))==(char *)-1){
```

```
perror("shmat");  
exit(1);  
}  
s=shm;  
  
for(int i=0;i<20;i++){  
  
    printf("Enter number %d : ",(i+1));  
    scanf("%d",&myArray[i]);  
}  
for(int i=0;i<20;i++){  
  
    *s++=myArray[i];  
}  
*s='\0';  
  
while(*shm != '*'){  
  
    sleep(1);  
}  
shmdt(NULL);  
shmctl(shmid,IPC_RMID,NULL);  
  
exit(0); }
```