EXPERIMENT NO:4

CLIENT

PROGRAM

```
#include <stdio.h>
#include <sys/ipc.h>
#include <sys/types.h>
#include <sys/shm.h>
void main() {
  int shmid, i;
  int *shm, *it, a[10];
  long size = 1000;
  key_t key;
  printf("Enter the key: ");
  scanf("%d", &key);
  shmid = shmget(key, size, IPC_CREAT | 0660);
  shm = shmat(shmid, NULL, 0);
  it = shm;
  printf("Enter the elements: ");
  for (i = 0; i < 10; i++) {
    scanf("%d", &a[i]);
    it[i] = a[i];
  }
  it[10] = 1;
}
```

OUTPUT

```
Enter the key: 5
Enter the elements: 1
2
3
4
5
6
7
8
9
10
```

SERVER

PROGRAM

```
#include <stdio.h>
#include <sys/ipc.h>
#include <sys/types.h>
#include <sys/shm.h>
int main() {
  int shmid;
  int *shm, *it;
  long size = 1000;
  key_t key;
  printf("Enter the key: ");
  scanf("%d", &key);
  shmid = shmget(key, size, 0);
  shm = shmat(shmid, NULL, 0);
  it = shm;
  printf("Server: Received data from client:\n");
  for (int i = 0; i < 10; i++) {
    printf(" %d ", it[i]);
  }
  printf("\n");
  return 0;
}
```

OUTPUT

```
Enter the key: 5
Server: Received data from client:
1 2 3 4 5 6 7 8 9 10
```