**PROGRAM**

#include<stdio.h>

#include<sys/types.h>

#include<sys/ipc.h>

#include<sys/shm.h>

#include<stdlib.h>

void main()

{

int shmid;

key\_t key=5678;

long shmsz=0;

int \*shm,\*it;

int i,j,n,pid,big,small;

printf("Enter The Count\n");

scanf("%d",&n);

shmsz=n\*sizeof(long);

if((shmid=shmget(key,shmsz,IPC\_CREAT|0666))<0)

{

printf("Error On SHMGET\n");

exit(1);

}

if((shm=shmat(shmid,NULL,0))==(int \*)-1)

{

printf("Error On SHMAT\n");

exit(1);

}

it=shm;

printf("Enter The Elements\n");

for(i=0;i<n;i++,it++)

scanf("%d",it);

pid=fork();

if(pid<0)

perror("Error");

else

{

if(pid>0)

{

it=shm;

big=it[0];

for(i=0;i<n;i++)

{

if(big<it[i])

big=it[i];

}

printf("\nLargest Element Is : %d \n",big);

}

else

{

it=shm;

small=it[0];

for(i=0;i<n;i++)

{

if(small>it[i])

small=it[i];

}

printf("Smallest Element Is : %d \n",small);

}

}

}

**OUTPUT**

**student30@student30-Vostro-270s:~/Desktop/VANISHA46$ gcc sharedlargest.c**

**student30@student30-Vostro-270s:~/Desktop/VANISHA46$ ./a.out**

Enter The Count

5

Enter The Elements

10

5

2

9

1

Largest Element Is : 10

Smallest Element Is : 1