SERVER CODE

#include<iostream>

#include<sys/ipc.h>

#include<sys/msg.h>

#include<unistd.h>

#include<string.h>

using namespace std;

struct msg1{

long mtype;

char a[100];

}m1;

struct msg2{

long mtype;

int temp;

}m2;

int main()

{

int i;

key\_t key;

key = ftok("/tmp/guest-TE4dqz/Desktop/client.cpp",'S');

int id = msgget(key, 0666 | IPC\_CREAT);

msgrcv(id, &m2, sizeof(m2.temp), 1, 0);

int m = m2.temp;

i=0;

while(m!=0)

{

if(m%2==0)

m1.a[i] ='0';

else m1.a[i] = '1';

m=m>>1;

i++;

}

m1.mtype = 2;

msgsnd(id, &m1, sizeof(m1.a), 0);

return 0;

}

CLIENT CODE

#include<iostream>

#include<sys/ipc.h>

#include<sys/msg.h>

#include<string.h>

#include<sys/types.h>

#include<unistd.h>

using namespace std;

struct msg1{

long mtype;

char a[100];

}m1;

struct msg2{

long mtype;

int temp;

}m2;

int main()

{

int n,i,z;

key\_t key;

cout<<"Enter the number you want to convert to binary!\n";

cin>>n;

m2.mtype = 1;

m2.temp=n;

key = ftok("/tmp/guest-TE4dqz/Desktop/client.cpp",'S');

int id = msgget(key, 0666 | IPC\_CREAT);

msgsnd(id, &m2, sizeof(m2.temp), 0);

z = fork();

if(z==0)

{

execl("./server","sandeep",NULL);

}

else {

msgrcv(id, &m1, sizeof(m1.a), 2, 0);

cout<<"\n";

int len = strlen(m1.a);

for(i=len-1;i>=0;i--)

cout<<m1.a[i];

cout<<"\n";

msgctl(id,IPC\_RMID,NULL);

}

return 0;

}