

Tower of Hanoi:

```
#include <stdio.h>
void towers(int n,char src,char temp,char dest)
{
    if(n==1)
    {
        printf("Move disk 1 from %c to %c\n",src,dest);
        return;
    }
    towers(n-1,src,dest ,temp);
    printf("Move disk%d from %c to %c\n",n,src,dest);
    towers(n-1,temp,src,dest);
}
int main()
{
    int n;
    printf("Enter number of disks\n");
    scanf("%d",&n);
    towers(n,'S','T','D');
}
```

OUTPUT:

User@PRATHIKSHA /c/ada lab

\$ cd "/c/ada lab/" && gcc towerofhanoi.c -o towerofhanoi && "/c/ada lab/"towerofhanoi

Enter number of disks :3

Move disk 1 from S to D

Move disk2 from S to T

Move disk 1 from D to T

Move disk3 from S to D

Move disk 1 from T to S

Move disk2 from T to D

Move disk 1 from S to D

User@PRATHIKSHA /c/ada lab

\$ cd "/c/ada lab/" && gcc towerofhanoi.c -o towerofhanoi && "/c/ada lab/"towerofhanoi

Enter number of disks :2

Move disk 1 from S to T

Move disk2 from S to D

Move disk 1 from T to D