PRACTICAL – 1

PROGRAM -1

AIM- Write A Program To Implement Tower Of Hanio

CODE-

|  |
| --- |
| #include <stdio.h>  void tower\_of\_hanoi(int disks, char source, char auxiliary, char target)  {  if (disks == 1) {  printf("Move disk 1 from rod %c to rod %c.\n", source, target);  return;  }  tower\_of\_hanoi(disks - 1, source, target, auxiliary);  printf("Move disk %d from rod %c to rod %c.\n", disks, source, target);  tower\_of\_hanoi(disks - 1, auxiliary, source, target);  }  int main() {  printf("\n HARSH D \n");  int disks;  printf("Enter the number of disks: ");  scanf("%d", &disks);  tower\_of\_hanoi(disks, 'A', 'B', 'C');  int Number\_of\_Steps;  Number\_of\_Steps=disks\*disks-1;  printf("The number of steps is %d", Number\_of\_Steps);  return 0;  } |

OUTPUT-

|  |
| --- |
|  |