

LAB TASK

ARTIFICIAL INTELLIGENCE

SUBMITTED BY:

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CSU-S15-118

**SUBMITTED TO:**

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**LAB REPORT:1**

**TASK:**

**TOWER OF HANOI PROBLEM**

**Solution:**

#include<stdio.h>

void towers(int num,char frompeg, char topeg, char auxpeg)

{

if (num==1)

{

printf("\n move disk 1 frompeg %c topeg %c", frompeg,topeg);

return;

}

towers(num-1 ,frompeg, auxpeg, topeg);

printf("\n move disk %d frompeg %c topeg %c",num,frompeg,topeg);

towers(num-1,auxpeg,topeg,frompeg);

}

int main()

{

int num;

printf("Enter the number of disks : ");

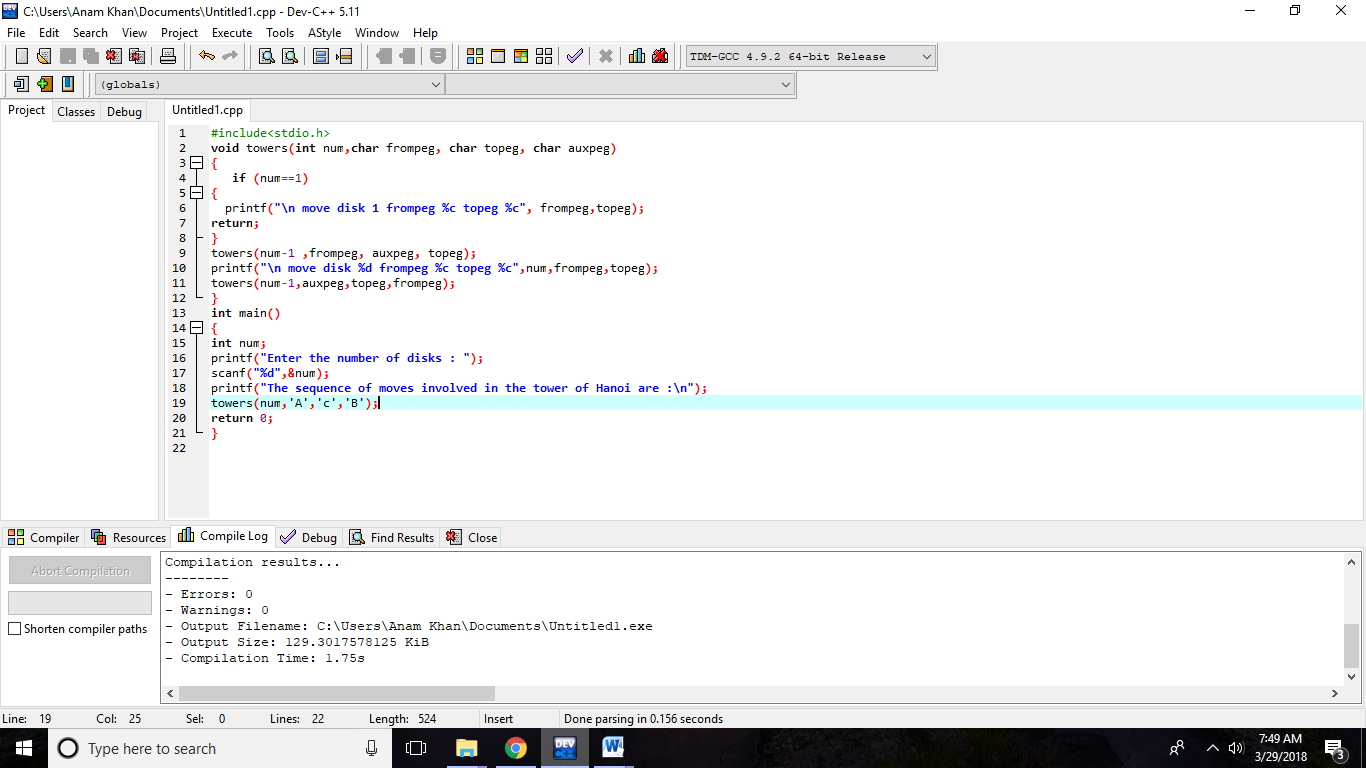
scanf("%d",&num);

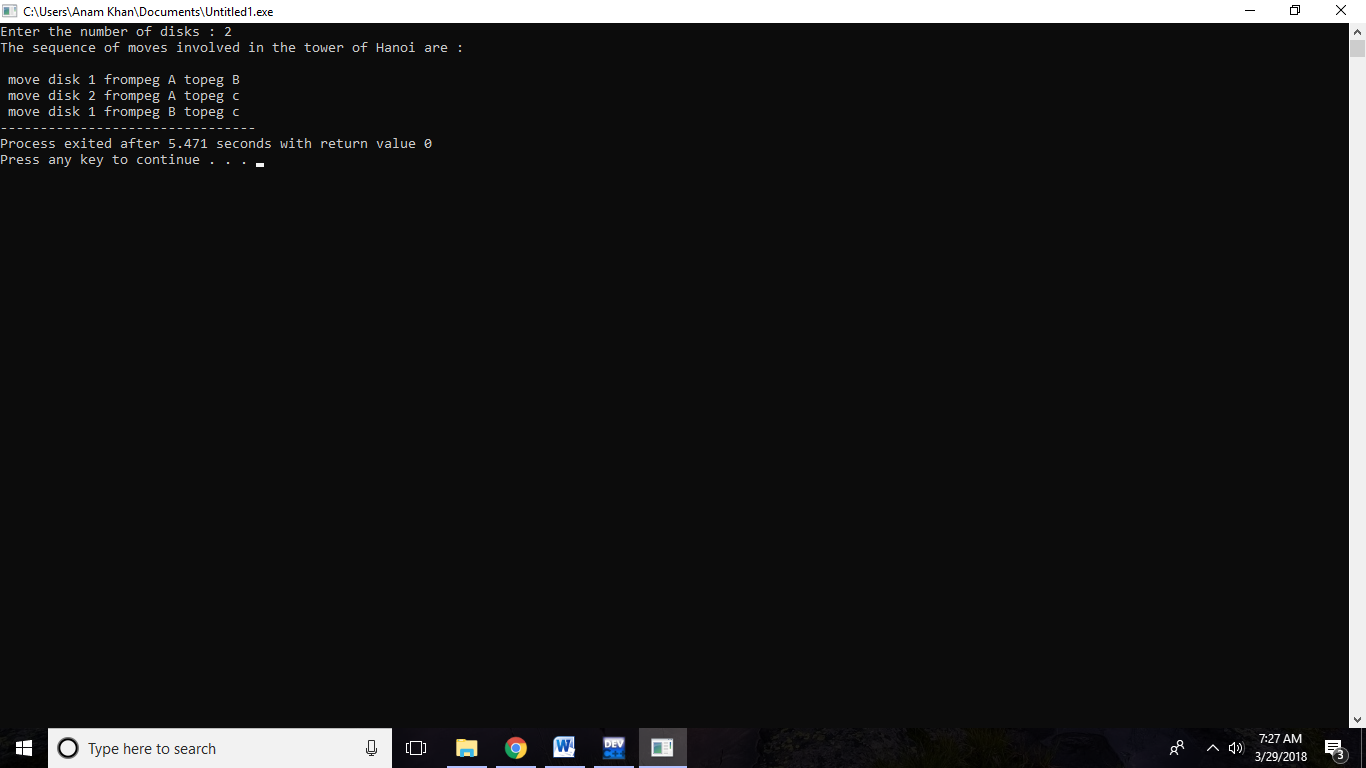
printf("The sequence of moves involved in the tower of Hanoi are :\n");

towers(num,'A','c','B');

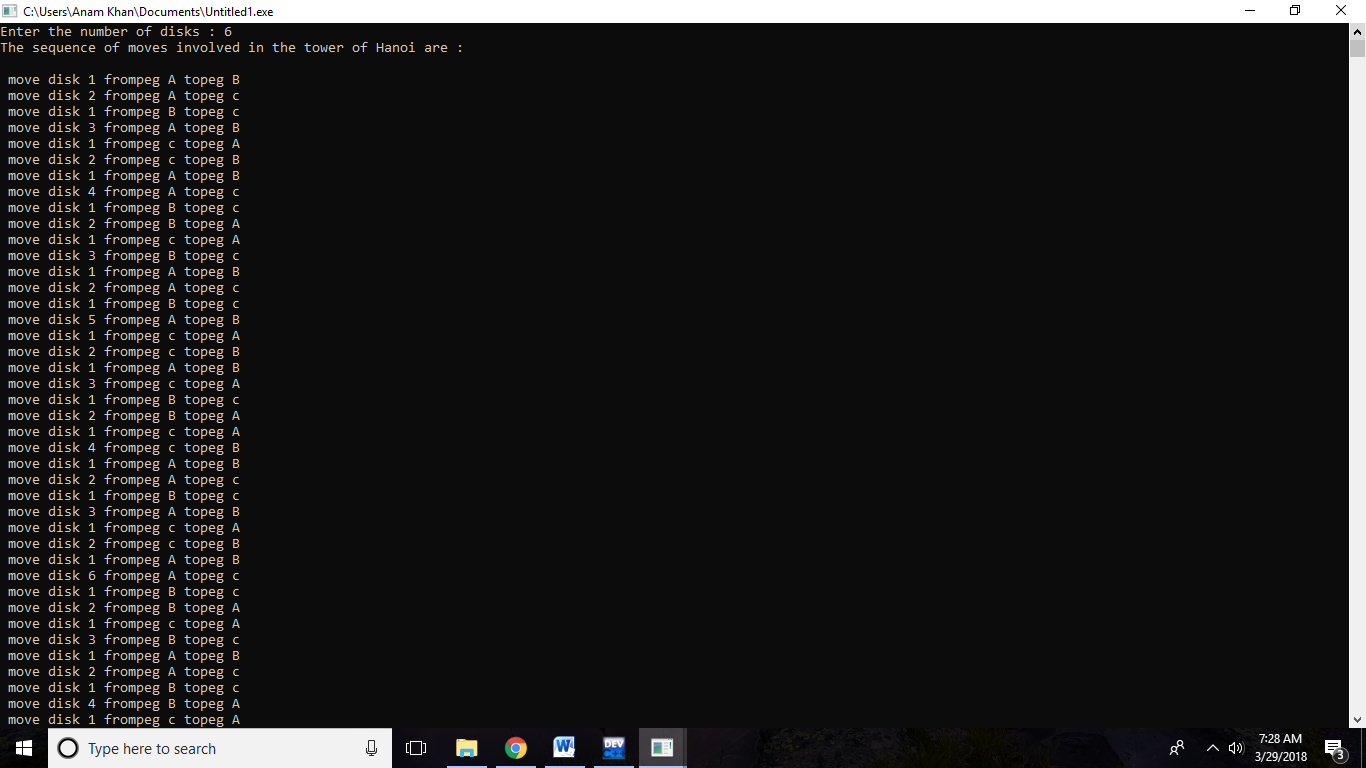
return 0;

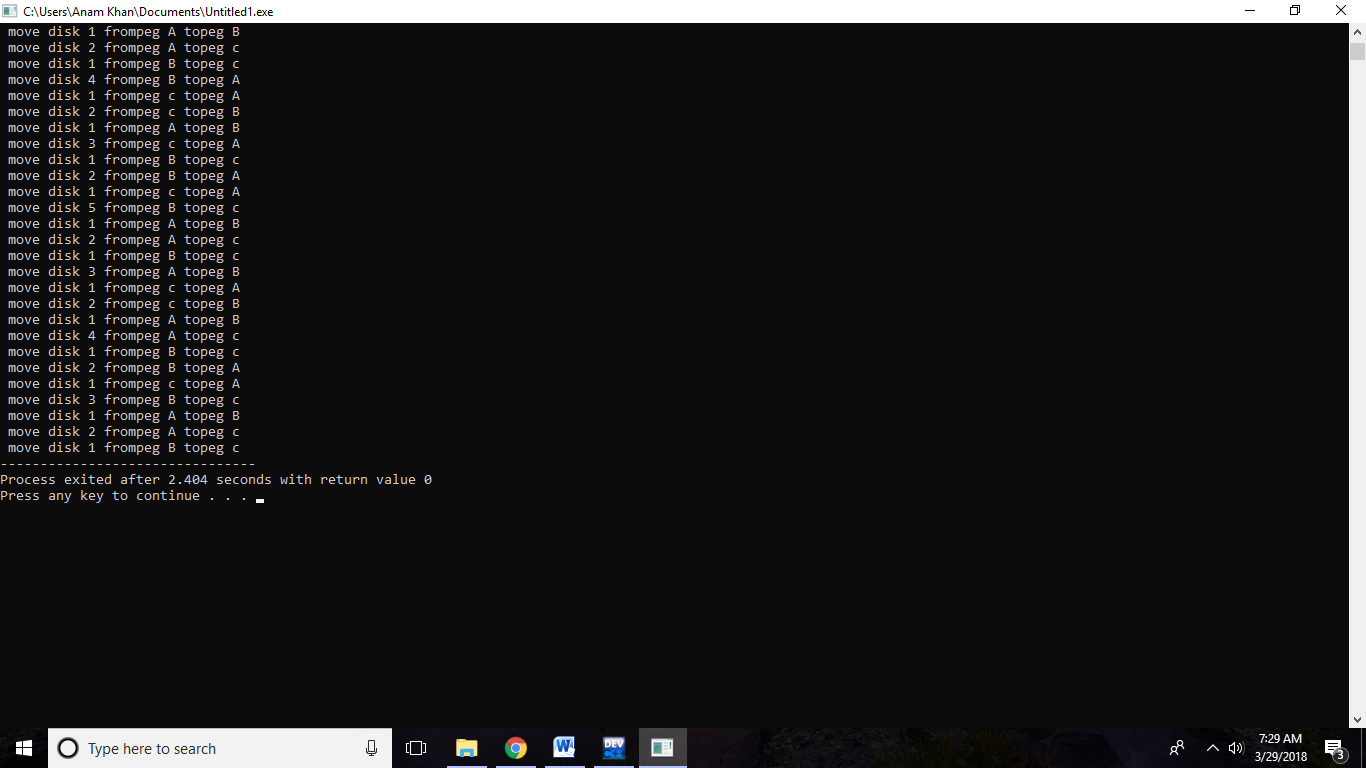
}



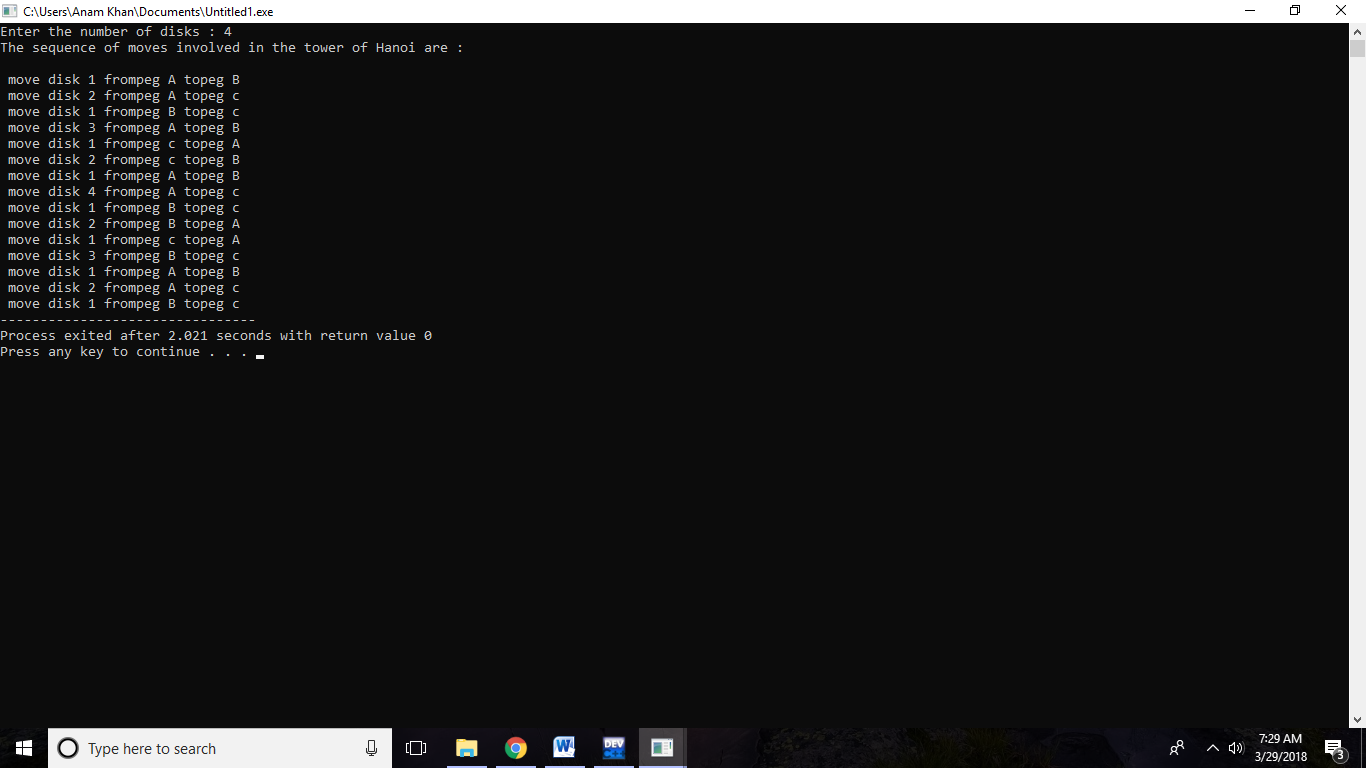


Enter Number of disks:2

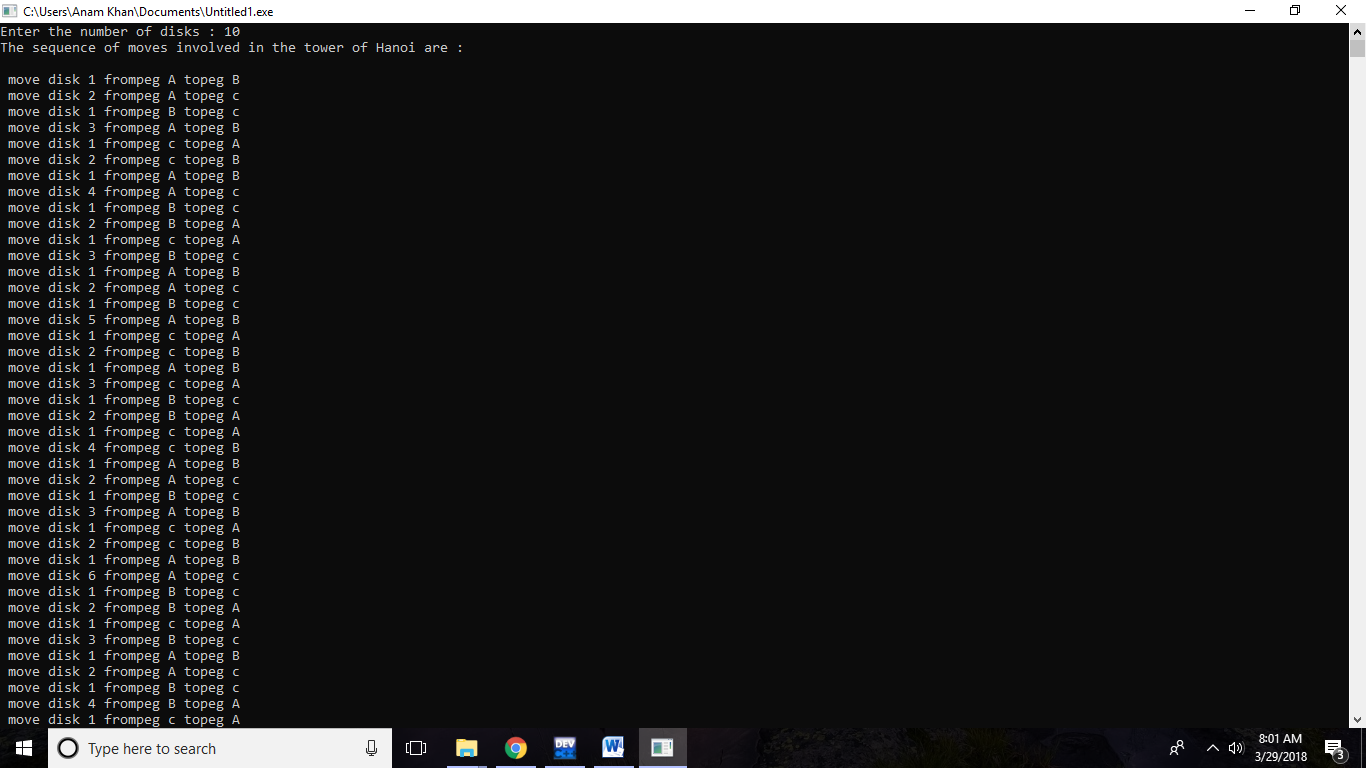
Enter Number of disks: 6



Enter Number of disks: 6



Enter Number of disk: 4



Enter Number of disk: 10

