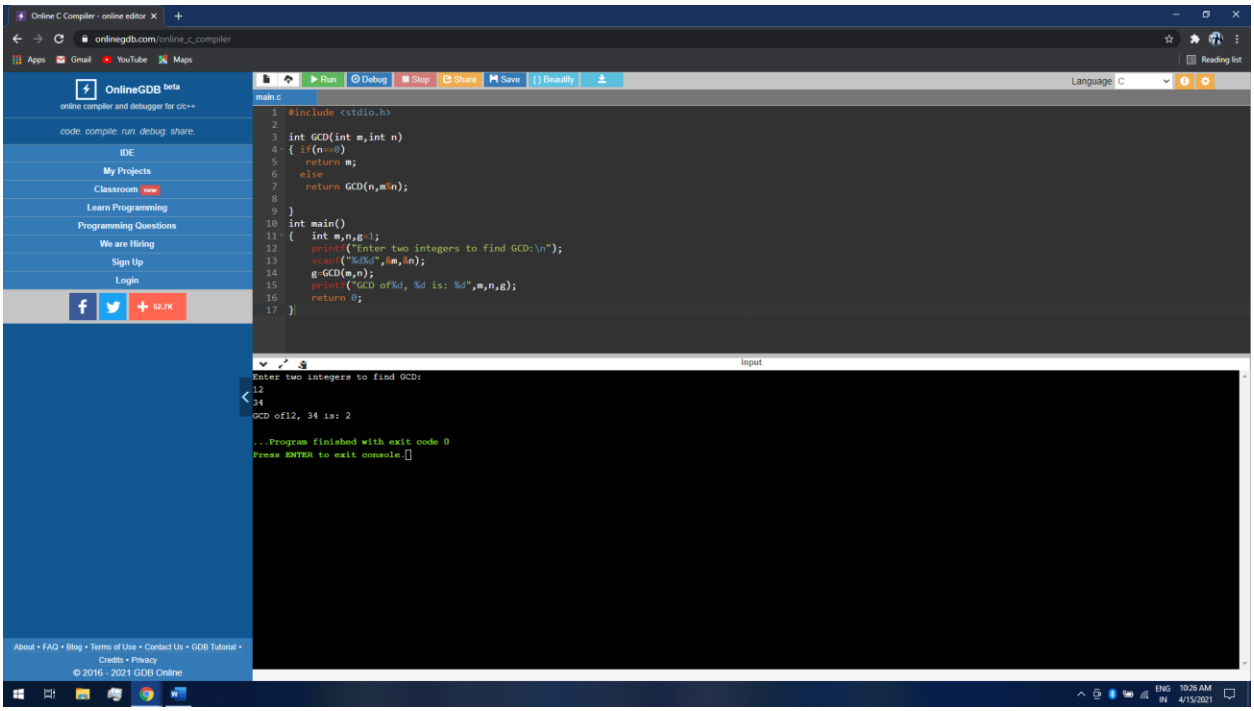
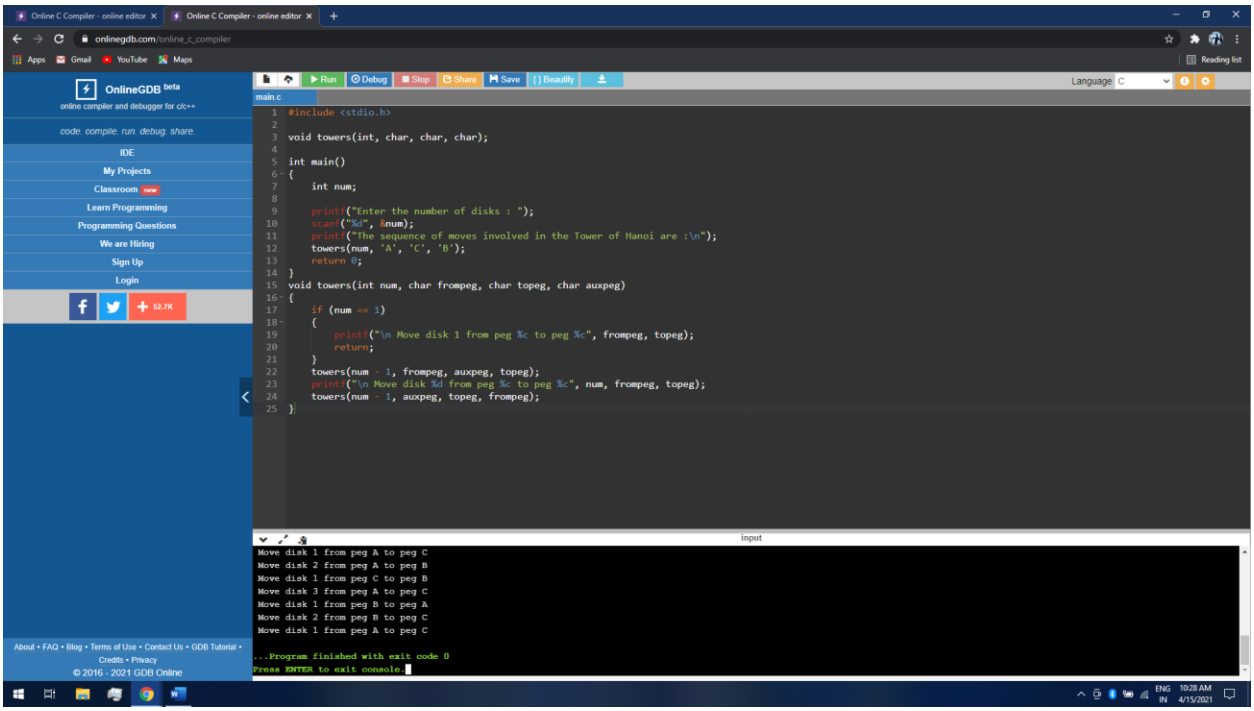
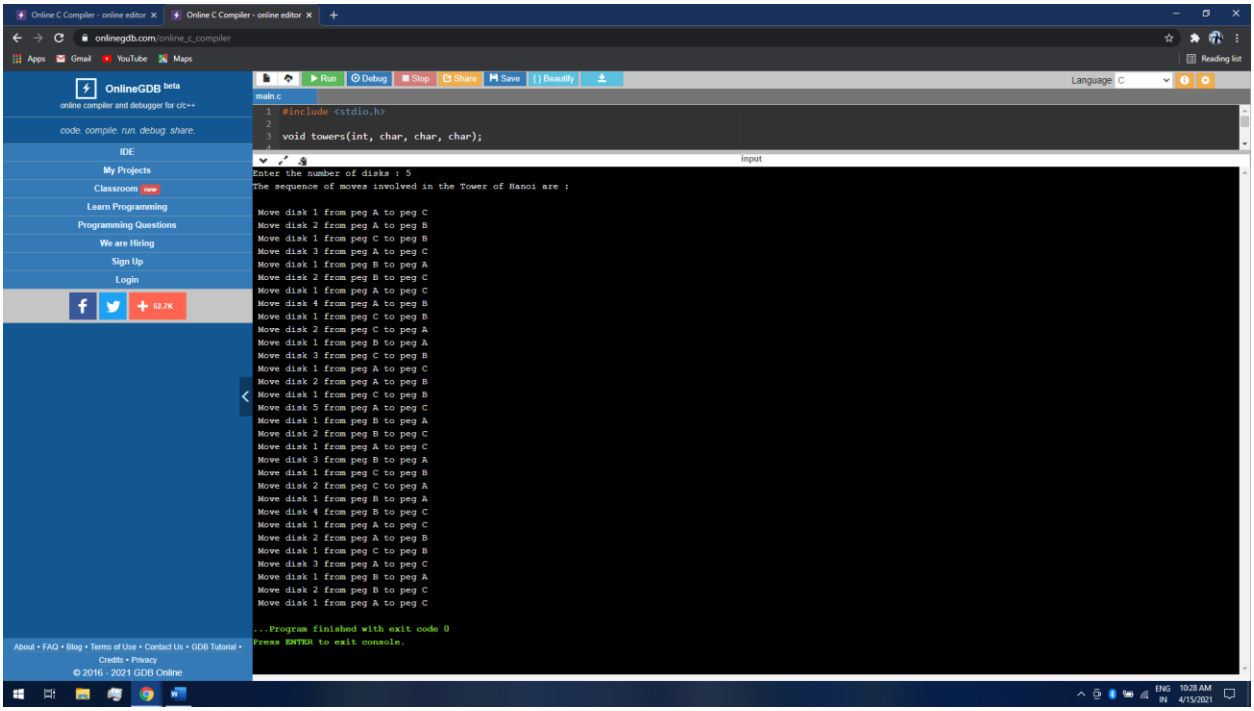


code for gcd:

```
#include <stdio.h>
int GCD(int m,int n)
{ if(n==0)
   return m;
  else
   return GCD(n,m%n);
  }
int main()
{   int m,n,g=1;
    printf("Enter two integers to find GCD:\n");
    scanf("%d%d",&m,&n);
    g=GCD(m,n);
    printf("GCD of%d, %d is: %d",m,n,g);
    return 0;
}
```





Code for tower of Hanoi:

```
#include <stdio.h>

void towers(int, char, char, char);

 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;
}
void towers(int num, char frompeg, char topeg, char auxpeg)
{
   if (num == 1)
   {
      printf("\n Move disk 1 from peg %c to peg %c", frompeg, topeg);
      return;
   }
  towers(num - 1, frompeg, auxpeg, topeg);
   printf("\n Move disk %d from peg %c to peg %c", num, frompeg, topeg);
   towers(num - 1, auxpeg, topeg, frompeg);
}
```