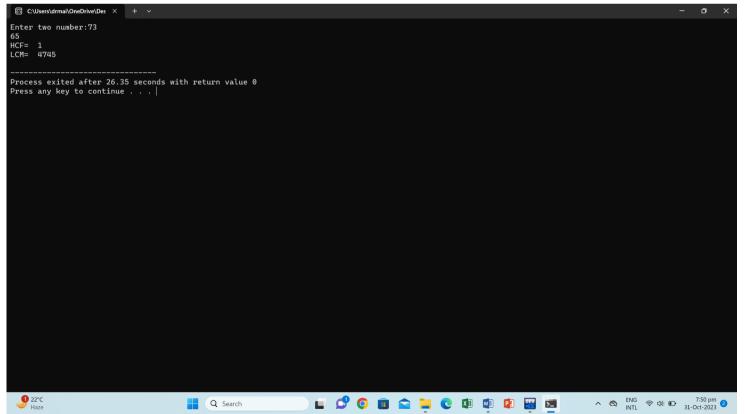
Write a program in C++ to find LCM of any two numbers using HCF. CODE:

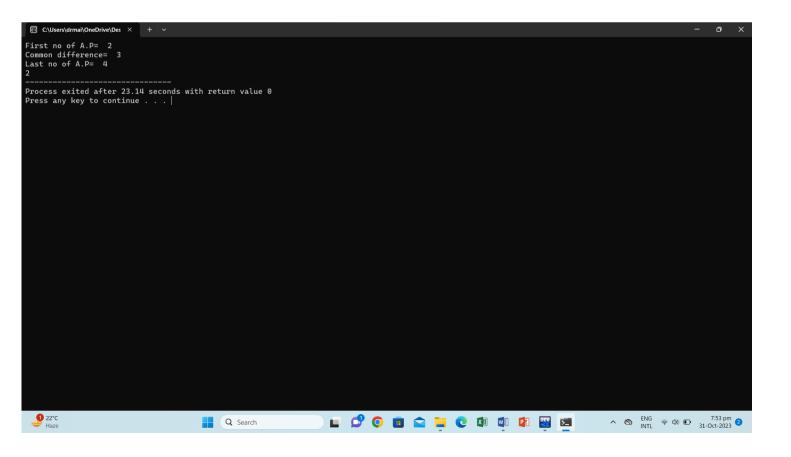
```
#include<iostream>
using namespace std;
int main(){
     int n1,n2,hcf,lcm,x,y,temp;
     cout<<"Enter two number:";</pre>
                                   //TAKING INPUT
     cin>>n1>>n2;
     x=n1;
     y=n2;
     while(y!=0){
           temp=y;
           y=x\% y;
           x=temp;
      }
     hcf=x;
     lcm=(n1*n2)/hcf;
     cout<<"HCF= "<<hcf<<endl;
                                       //GIVING HCF VALUE
     cout << "LCM=" << lcm << endl;
                                       //GIVING LCM VALUE
```



Write a program in C++ to find out the sum of an Arithmetic progression series.

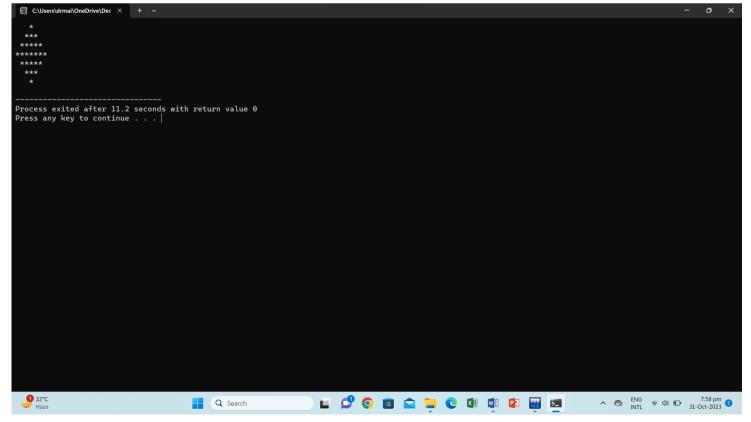
CODE:

```
#include<iostream>
using namespace std;
int main(){
     int w,x,y,z;
     cout<<"First no of A.P= "; //TAKING INPUT OF a1
     cin>>w;
          cout<<"Common difference= "; //TAKING VALUE OF d
     cin>>x;
          cout<<"Last no of A.P= "; //TAKING VALUE OF an
     cin>>y;
     z=w;
     while(w<=y){</pre>
          cout<<w<<" ";
          w=w+x;
     while(z>y){}
                cout << "Not valid";
           }}
```



Write a program in C++ to create a diamond. CODE:

```
#include <iostream>
using namespace std;
int main() {
  int x=7,y,z;
  // Upper part of the diamond
  for(y=0;y< x/2+1;y++) {
    for(z=0;z<x/2-y;z++)
       cout<<" "; }
    for(z=0;z<2*y+1;z++)
       cout<<"*";
    cout<<endl;
  // Lower part of the diamond
  for (y=x/2-1;y>=0;y--){
    for(z=0;z<x/2-y;z++){
       cout<<" ";
    for(z=0;z<2*y+1;z++)
       cout<<"*"; }
    cout<<endl;
```



Write a program in C++ to convert a decimal number to binary number.

CODE:

