Lab 5 Home task

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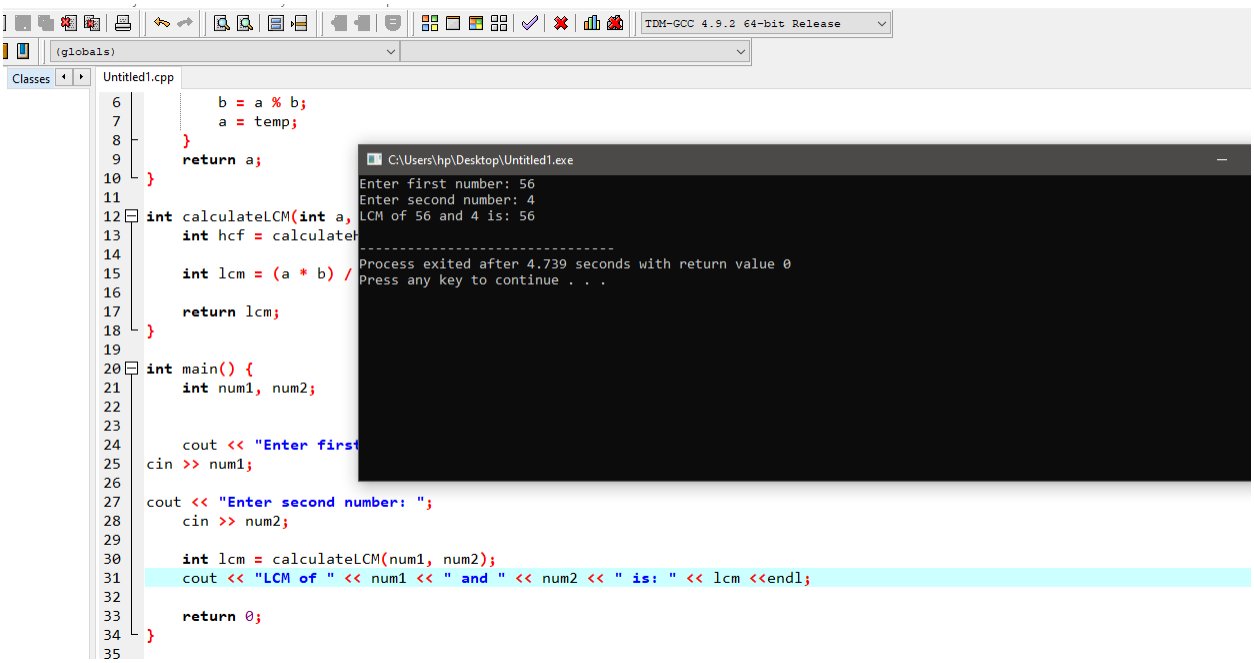
Question:1

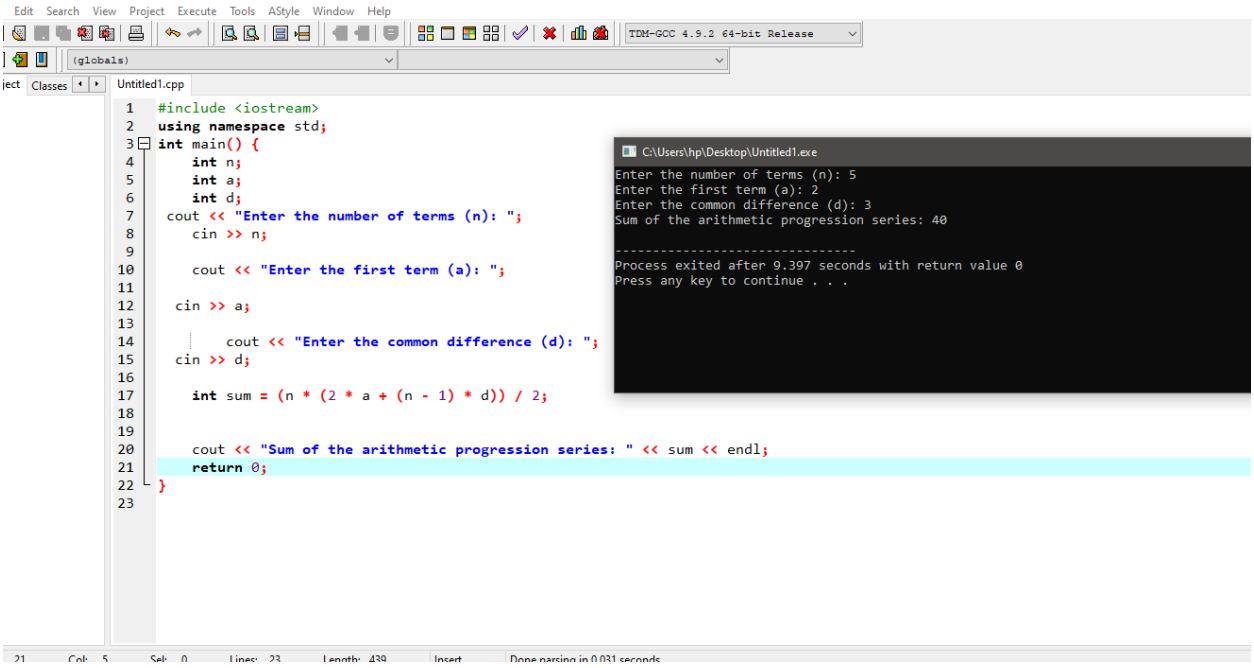
Write a program in C++ to find LCM of any two numbers using HCF




```
        b = a % b;
        a = temp;
    }
    return a;
}

int calculateLCM(int a,
    int hcf = calculateH

    int lcm = (a * b) /

    return lcm;
}

int main() {
    int num1, num2;


    cout << "Enter first
cin >> num1;

cout << "Enter second number: ";
    cin >> num2;

    int lcm = calculateLCM(num1, num2);
    cout << "LCM of " << num1 << " and " << num2 << " is: " << lcm <<endl;

    return 0;
}
```

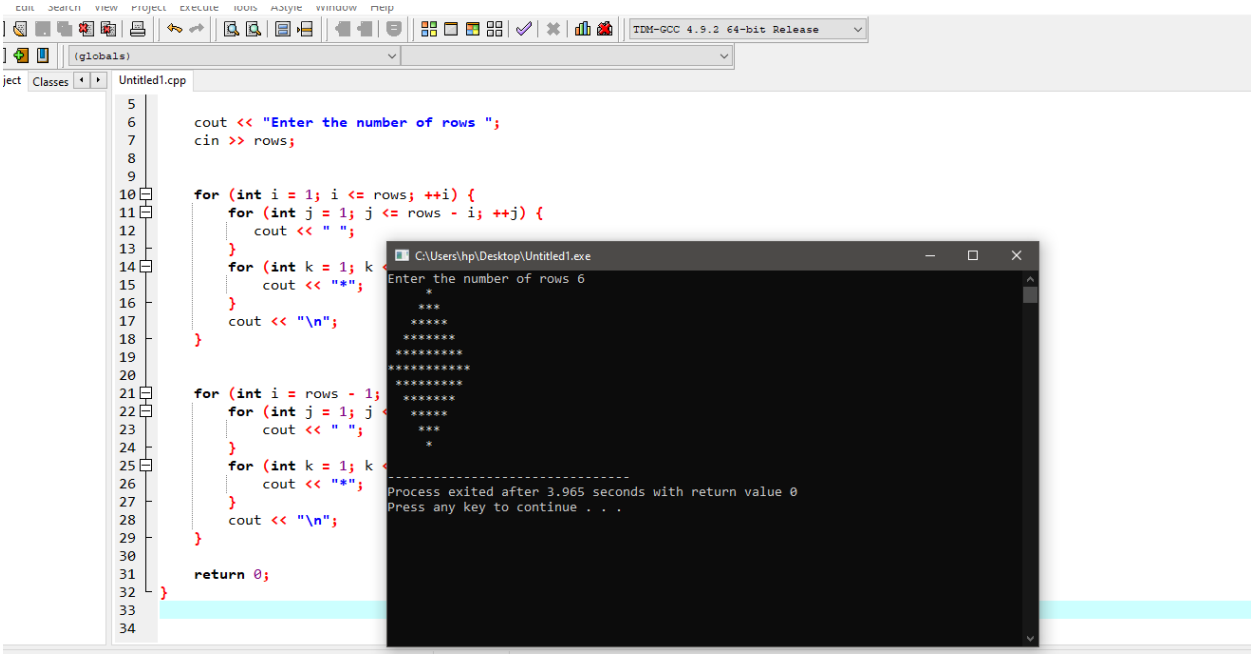
Question:2

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



Question:3

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


TDM-GCC 4.9.2 64-bit Release
(globals)
Classes
Untitled1.cpp
cout << "Enter the number of rows ";
cin >> rows;
for (int i = 1; i <= rows; ++i) {
for (int j = 1; j <= rows - i; ++j) {
cout << " ";
}
for (int k = 1; k
cout << "*";
}
cout << "\n";
}
for (int i = rows - 1;
for (int j = 1; j
cout << " ";
}
for (int k = 1; k
cout << "*";
}
cout << "\n";
}
return 0;
}
C:\Users\hp\Desktop\Untitled1.exe
Enter the number of rows 6
*
***
*****
****
****
****
****
****
*****
***
*

Process exited after 3.965 seconds with return value 0
Press any key to continue . . .