

1. Write a C++ program to print half Pyramid of numbers?

/*

OUTPUT:

Enter the number of rows: 5

1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

*/

2.A numeric integer grade is between 20 and 66. Using integer division or otherwise obtain a int value that is 2, 3, 4, 5, or 6 from the numeric grade. Write code using a switch statement using this number in the selector expression that assigns letter grades based on this 10 point scheme:

if the numeric_grade is not less than 60, the letter_grade is an A,

if the numeric_grade is not less than 50, the letter_grade is a B,

if the numeric_grade is not less than 40, the letter_grade is C,

if the numeric_grade is not less than 30, the letter_grade is D,

otherwise the letter_grade is F

3. C++ program for Calculation of the surface and the volume of a cone

❑Write a program that calculates the volume of a solid cone. The formula is:

$\text{volume} = (\pi \times \text{radius}^2 \times \text{height}) / 3$ ❑Read in the values for the parameters

height and radius(as floating point numbers). ❑Then the program should

calculate the volume considering the following restriction :radius and height

must be greater than0 ❑If the user types in a correct value for one of the

variables ,the program should print out an error message and quit .

Otherwise ,it displays the result.

4.C++ Program to calculate the series (1) + (1+2) + (1+2+3) + (1+2+3+4) + ... + (1+2+3+4+...+n)