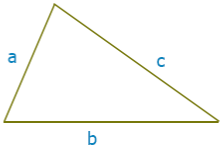


# C++ Problem Set 1

1. Write a C++ program to print a Bangladesh flag on the screen.
2. Write a C++ program to find the area of any triangle using Heron's formula.

Heron's Formula :-  $\text{Area} = \sqrt{s(s-a)(s-b)(s-c)}$

$$s = \frac{a+b+c}{2}$$



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**Sample Output:**

Find the area of any triangle using Heron's Formula :

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Input the length of 1st side of the triangle : 5

Input the length of 2nd side of the triangle : 5

Input the length of 3rd side of the triangle : 5

The area of the triangle is : 10.8253

3. Write a C++ program to format the output.

**Sample Output:**

Formatting the output :

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The value of pi : 3.1416

The value of pi 4 decimal place of total width 8 : | 3.1416|

The value of pi 4 decimal place of total width 10 : | 3.1416|

The value of pi 4 decimal place of total width 8 : |--3.1416|

The value of pi 4 decimal place of total width 10 : |----3.1416|

The value of pi in scientific format is : 3.1416e+00

4. Write a C++ program to find the largest of three numbers.

**Test Data :**

12 25 52

**Expected Output :**

1st Number = 12,      2nd Number = 25,      3rd Number = 52

The 3rd Number is the greatest among three

5. Write a program in C++ using switch to accept a grade and declare the equivalent description :

**Grade Description**

E --- Excellent

V --- Very Good

G --- Good

A --- Average

F --- Fail

**Test Data :**

Input the grade :A

**Expected Output :**

You have chosen : Average