OOP Questions

1. Create a class Student that contains following data members
   - static variable to create unique number
   - A variable to store roll no
   - A variable to store name
   - An array to store marks of 5 subjects
   - a field totalMarks

This class should have following member functions:

A constructor with no-parameters that increments static variable and assign it to roll number. Remaining data members should be initialized to zero or empty values.
Input() function to input name and marks of 5 subjects from user

Show() function to display roll number, name and marks of 5 subjects to the user

TotalStudents() function that should display the number of objects that has been created so far. This function should be static.

TotalMarks() function that should calculate and return to total marks of a student

getHighest() function that returns highest marks of the student

getLowest() function that returns lowest marks of the student

getAverage() function that returns average marks of student

getPassCount() function that counts and returns total number of subjects in which the a student passed. (A student is passed if he gets 50% or above marks)

In the main function, create three objects, input their values and display them. For each student, display his total marks, highest, lowest, average marks and the number of subjects in which he is passed. Also display how many students have been registered so far.