CENG241 Labwork 2

1. Write a C++ program in which the user enters an array of 26 letters and the program displays lengths of sequences of consecutive same letters.

Enter your letters: hhheeeelloooooowwooorllddd

Result: 3 4 2 6 2 3 1 2 3

Enter your letters: abcdefghijklmnopqrstuvwxyz

Enter your letters: eeeeeeeeeeeeeeeeeee

Result: 26

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2. Write a C++ program in which the user enters 10 integers in an array and the program draws 10 top-aligned vertical bars, where the heights of bars are the numbers in the array, on screen.

3. Write a C++ program in which the user enters information about five first-year primary school classes and the program displays statistics about each classroom and school total. Define a **Classroom** structure for this purpose; which contains one character for classroom name, one integer for number of students in this classroom and one another integer for number of students who have learned to read.

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Enter information for 1. class:
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Letter: \underline{A}

Total number of students: 35

Number of students who have learned to read: $\underline{29}$

Enter information for 2. class:

Letter: B

Total number of students: 32

Number of students who have learned to read: 30

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Percentage of students who have learned to read:

Classroom 1-A: 82% Classroom 1-B: 93% Classroom 1-C: 87% Classroom 1-D: 78% Classroom 1-E: 92% School total: 86%