Object-Oriented-Programming Coursework 2 Report

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In this coursework, I implemented three programs, the first receives two integer inputs and finds the sum of all numbers between them, including the inputs themselves. The second is to find square root value of integer input. And the third program is to print three real-valued numbers which are generated randomly at each execution. So, in the case of first one, I declared the sum variable as integer type and added all numbers from first input to second input to sum by using for-loop. And also, if the second input is smaller than first one, it will print 0 because there is no number between them. In the second one, I included <cmath> header file to use sqrt() function. In the last one, I used rand() and srand() function to get random numbers and gives time(0) in <ctime> as seed of srand() function to make the result of each execution different from each other. Since rand() function returns value between 0 and 32767, or maybe other value according to the environment, I found the remainder of returned value divided by 32767 and divided it again with 32767.0 to find the random value between 0 and 1. And in the case of second and third, I used <iomanip> header file to use std::fixed and std::setprecision(6) to make the results of them can be rounded at 7-th digit after decimal point(to be visualized up to 6 digits after decimal point).