

Object-Oriented-Programming Coursework 1 Report

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In this coursework, I implemented two programs, one is receiving two input numbers and printing the average number of them. The other is receiving a character as input value and printing the corresponding ASCII code as an output. In more detail, when I implemented Program 1(first one), I defined two double type variables named num1 and num2 and stored input values to them in order through std::cin object. After that, I printed $(\text{num1} + \text{num2}) / 2$, which is the average of them by using std::cout object. The program operated well in the uni06 server when I tested it with several values such as 1.0 and 2.0(output => 1.5), 3.0, and 5.0(output => 4) and etc.

In Program 2, the second one, I implemented it by using static_cast<int>(char c) function. First, receive an input character from user through cin.get() method to get exactly one character. And then by using the above type cast function, static_cast<int>, the input character is converted to integer data type, which is the so-called ASCII code. It's because a character is represented as a corresponding integer value or ASCII code, it can happen to get the original value of ASCII code by using type conversion of character. After getting the ASCII code of the input character, I printed the value via std::cout. It also operates well in the uni06 server.