

ECE 175: Computer Programming for Engineering Applications

Lab 0

Problem 1: Write a program that reads a positive float number and displays the previous and next integers.

Sample Run:

Enter a float: 3.5

The previous and next integers are 3 and 4.

Problem 2: Write a program that reads two integers and displays their sum, difference, product, and the result of their division.

Sample Run:

Enter two integers: 8 5

Sum: 8, Difference: 3, Product: 40, Division: 1.6

Problem 3: Write a program that reads a three-digit integer from the keyboard and prints out the sum of its digits. The number entered by the user is guaranteed to be three-digit and will not start from a zero. You can use divisions by powers of 10 to isolate each of the digits.

Sample Run:

Enter an integer: 358

The digit sum of 358 is: 16

Problem 4: Write a program that reads a number that represents seconds and converts it into hours, minutes, and seconds.

Sample Run:

Enter the time in seconds: 8140

8140 seconds equal 2h, 15m, and 40s