

Assignment 3: Selection statements and Loops

Date: Monday September 24 3:00pm-5:50pm

You must demo all your work *during your lab session and before exiting the lab*. And submit the lab work in the blackboard.

Programs:

1. Write a program that calculates how many digits a number contains:

Enter a number: 374

The number 374 has 3 digits

You may assume that the number has no more than four digits.

2. Write a program that finds the largest and smallest of four integers entered by the user:

Enter four integers: 21 43 10 35

Largest: 43

Smallest: 10

Use as few if statements as possible.

3. Using the switch statement, write a program that converts a numerical grade into a letter grade:

Enter numerical grade: 84

Letter grade: B

Use the following grading scale: A=90-100, B=80-89, C=70-79, D=60-69, F=0-59.

Print an error message if the grade is larger than 100 or less than 0.

Write pseudocode to solve the given problems.

Write C program to solve the above problems. Name your file `Lab3_YourName.c`