

CSE108 – Computer Programming Laboratory

Lab #3

Date: Monday February 25, 2019

Handin: A student with number 20180000001 should hand in three separate files named 20180000001_part1.c, 20180000001_part2.c and 20180000001_part3.c for this lab.

Part 1. [30pts] Write the code that includes a function which is find the inverse of number? Hint: Use modulus (%) operator to obtain the digits of a number.

Example;

Input=12345;

Output=54321;

Part 2. [30pts] Write the following function (in file student_number_part2.c) that calculates whether a student can take a make-up exam or not. You must take midterm, final and absenteeism values from user in a for loop. The average must be calculated first. For this, 40% of the midterm exam and 60% of the final exam grade must be collected. Students whose averages are higher than 59.5 or absenteeism higher than 80% are not allowed to take the make-up exam.

void makeup_exam(int midterm, int final, int absenteeism)

Example;

		1.Student	2.Student	3.Student
Input	Midterm	80	80	80
Input	Final	60	20	20
Input	Absenteeism (%)	45	45	82
Output	Result	Not Allowed	Allowed	Not Allowed

Part 3. Write a code (in file student_number_part3.c) that computes letter grade of average notes. You must take midterm and final notes from user. Calculate average of notes like in question 2. Create letter_grade(int midterm, int final) function. This function should display the letter grade corresponding to the average.

char letter_grade(int final,int midterm)

Average Letter Grade

90-100 -----> A

80-90 -----> B

70-80 -----> C

60-70 -----> D

-, 60 -----> F

Create that structure with switch-case or if-else statements.

Example;

Input	Midterm	80	90	20
Input	Final	20	80	30
Output	Letter Grade	D	B	F