



DEPARTMENT OF COMPUTER SCIENCE

FORMAN CHRISTIAN COLLEGE (A CHARTERED UNIVERSITY), LAHORE

LAB 7 (Practice Lab)

ROLL No.

Time Allowed: 90 min

This is an open books and open notes lab session. This is an individual lab and you CANNOT share your code with each other. Any such attempt will result in a ZERO grade in this lab.

Upload the .ASM file on Moodle within the given deadline

Problem Statement[5 marks]: Swapping Values

Store some value in \$t1 and \$t2. In this task you have to swap the two values with the help of \$t3.

For example, if the \$t1 and \$t2 were equal to 5 and 10 respectively, after the swapping is done, the values of \$t1 and \$t2 should be equal to 10 and 5 respectively.

Problem Statement[10 marks]: Array Manipulation

Define an array that has integer values that has a length of 10 (e.g arr1: .word 1,2,3,4,5,6,7,8,9,10)

Access the 6th element and 10th element of the array and calculate their sum. Overwrite the 8th element of the array with the value of the calculated sum.

The final array should look like this: 1,2,3,4,5,6,7,16,9,10

Hint: Refer to your solution of lab5 incase you have problems regarding array manipulation

Problem Statement[5 marks]: Calculating Average

Prompt the user for two integers and store their values in the variables names, 'var1' and 'var2' respectively. Calculate the sum of the two variables and store their result in a variable named 'var3'. Divide this result value by 2 in order to get the average value of the two integers. Display your result.

Hint: Store the values of the first and second integer in \$s1 and \$s2 respectively and store the result in \$s3.

Hint: Use SRL(shift right logical) command for division.