

University of Central Punjab

rporated by Ordinance No. XXIV of 2002 promulgated by Government of the Punjab)

FACULTY OF INFORMATION TECHNOLOGY

Computer Organization and Assembly Language

Lab 3	
Topic	1. Addressing Modes with variations.

Q1: Write a program to solve the following:

Use any addressing mode to access memory variables:

Let

A = 150

B = 30

C = 20

I.Save the sum of these three variables (A+B+C) in ax.

II.Save the result (A-C) in cx.

III.subtract (ah-cl) and save the result in dh.

NOTE: Execute the code in sequence.

Q2: Write a program to solve the following using the address of variable 'B':



University of Central Punjab

orporated by Ordinance No. XXIV of 2002 promulgated by Government of the Punjab)

FACULTY OF INFORMATION TECHNOLOGY

Use direct addressing mode to access memory variables:

Let

A=150

B = 30

C = 90

I. Save the sum of these three variables (A+B+C) in ax.

II.Save the result (A-C) in cx.

III. subtract (ah-cl) and save the result in dh.

NOTE: Execute the code in sequence.

Hint: for reference see Question 1 (b) of Part 1

Q3: Write a program to solve the following using the address of variable 'Num3':

Use indirect addressing mode to access memory variables:

Let

Num1: db 10 Num2: db 30h Num3: db 0x90 Num4: db 0x1A

Num5: db 29

I.Save the sum of these five variables (Num1+Num2+Num3+Num4+Num5) in ax.

II.Save the result (Num2-Num5) in cx.

III.Subtract (cl-ah) and save the result in dl.



University of Central Dunjab (Incorporated by Ordinance No. XXIV of 2002 promulgated by Government of the Punjab) FACULTY OF INFORMATION TECHNOLOGY