

Lab # 3: Lab Manual for Lecture # 3

Lecture # 3: Basic Arithmetic Operations

SECTION: I

Answer following questions.

- When we move negative number in DUMP registers, then why negative number would not displayed?
- How data would be displayed in DUMP registers, if we move decimal number greater than 15?
- Convert $(850)_{10}$ number into hexadecimal.

SECTION: II

What assembly language code for following questions.

- Move $-(30)_{10}$ into EAX and then display. Explain the output in your own words.
- Move $-(30)_{16}$ into EAX and then display. Explain the output in your own words.
- Move $-(111010)_2$ into EAX and then display. Explain the output in your own words.
- Move $-(F45)_{16}$ into EAX and then display. Explain the output in your own words.
- Move $(AF0A)_{16}$ into EAX and then display. Explain the output in your own words.
- Calculate following expression and explain the calculation and final result.
 - $(AD00)_{16} - (1541)_{10}$
 - $(AD00)_{16} + (1541)_{10}$
 - $(AD00)_{16} * (1541)_{10}$
 - $(AD00)_{16} / (1541)_{10}$