

An-Najah National University
Department of Computer Engineering
Microprocessors (10636322)

Assignment # 2

Answer the following:

- 1- Using DOS INT, write an 8088 based assembly program to implement a multi-operand calculator input in the form of a string of operands and operators. The user can enter operands followed by operators until user enters the “=”. Once the user enters “=” the result should be displayed. DO not implement any priority, just execute from left to write.

Knowing that:

- Operands are decimal unsigned numbers that fits in 16 bits.
- An operation is one of the following math Operations: +, -, *, /
- Division is always Integer division so ignore remainder
- You should ignore any non-operator or non-digit character

Examples:

125 + 41 -20 = 146

870 -51 *3/10 = 245

241*120 -20 +1= 28901

29 /5/5 12125= 1

2*2*3*5+3-3+5-6 = 59

- 2- Update the calculator by implementing the square root.

Deadline: Saturday 5/12/2020

Good Luck