EGC220	Problem Set 2	Dr. Izadi

First Name:	Last Name:

- 1. Convert the following numbers
- a. (110110011.01101)₂ → Hexadecimal and Octal
- b. $(2EA03.4C)_{16} \rightarrow Binary and Octal$
- c. (5034.25)₁₀ → Binary, Hexadecimal and Octal
- 2. Perform the following arithmetic operations in the indicated base:
- a. $(32.4)_5 + (13.2)_5$
- b. (32.4)₅ (13.2)₅
- c. (32.4)₅ * (13.2)₅
- d. (13.2)5 (32.4)5
- e. $(128C4.2)_{16} + (58D.C4)_{16}$
- f. (128C4.2)₁₆ (58D.C4)₁₆
- g. $(101101.011)_2 (100011.101)_2$
- h. $(101101.011)_2 + (100011.101)_2$
- i. Repeat g. and h. by first converting the numbers to hexadecimal and then performing the operation, before converting back to binary.