## COMPUTER SCIENCE 20, SPRING 2014

Module #8 (Logic and Computers) - Check-in questions Author: Tawheed Abdul-Raheem

- 1. Perform the following operations in binary:
  - (a)  $11011_2 + 11010_2$
  - (b)  $10101_2 1010_2$
  - (c) check your answers by performing the same operations in decimal.

## Solution:

(c) To perform the same operation in decimal it is important for us to know each of the term in the numbers

$$2^0 = 1, 2^1 = 2, 2^2 = 4, 2^3 = 8, 2^4 = 32....$$