

CSC 2010 – Fall 16
Homework #3
Due 09/26/2016 @11.59 pm

Submission Requirements

You must turn work at the SPECIFIED TIME so you can receive credit for Homework!

*Homework **must be submitted on desire2learn** by the due date and time. Late homework will be subject to a penalty, as stated in the course grading policy. No email or hard copies of homework will be accepted.*

*You may discuss the assignments with other students in the class, but (as stated in the academic honesty policy) your written answers **must be your own**, and you must list the names of other students you discussed the assignment with.*

How to Submit

Log into D2L (desire2learn.gsu.edu), select the class to view its drop box folders, select the correct folder for the given assignment and upload the file there.

You will get a confirmation email. Please save the conformation email in the event something goes wrong, for example work was submitted to the wrong folder etc...,

- 1. You can print homework do it by hand then**
- 2. Upload work to D2L download**
- 3. use this free phone app**



4. CamScanner - Phone PDF Creator

4. Demonstrate how to convert the given decimal numbers to 10-bit 2's complement numbers:

A) 406

B) -406

5. Demonstrate how to get the decimal values for the following 8-bit unsigned binary numbers:

A) 11010010

B) 01011001

1. Demonstrate how and give the decimal values for the following 8-bit 2's complement numbers:

a. 11010010

b. 01011001

(Show work) What is the decimal value of 1010 1111 if the number of **bits is 8** and the format is 2's complement?

(Show work) What is the decimal value of 1010 1111 if the number of bits is 8 and the format is sign magnitude?

(Show work) What is the decimal value of 1010 1111 if the number of bits is 8 and the format is unsigned binary?

Demonstrate how to solve the binary Arithmetic **(Show work)**

$$11001 + 00101$$

$$11111 - 01011$$

Demonstrate how to solve the hexadecimal Arithmetic **(Show work)**

1)

82CD

+ 1982

A31

+ E2C

E2C

- A31

Bonus

Show the unsigned binary number 1010 1010 1010.1010 in decimal? **(Show work)**