Introduction to Digital Computing Theory
Homework 1 – Number of System and Codes

Student's Name: _____

Instructions:

- You have to show all work in order to receive full credit

Make the following conversion (question 1-11):

1) Given 1011101_2, what would be its decimal value	2) Given $A3E_{16}$, what would be its decimal value
3) Given 28418_{10}, what would be its hexadecimal value	4) Given 56_{10}, what would be its binary value
5) Given 461_8, what would be its decimal value	6) Given 70_{10}, what would be its octal value
7) Given $8A5_{16}$, what would be its binary value	8) Given 135_8, what would be its binary value

9) Given 1010011011_2, what would be its hexadecimal value	10) Given 11000101_2, what would be its octal value
11) Given the following display number 895_{10}, what would be its BCD value?	
12) Using the ASCII code table, what is the message of the following ASCII - hexadecimal code: **48 65 79 50 41 55 4C$_{\text{ASCII (Hex)}}$**	
Write in binary code, each of the following negative numbers (question 17-20)	
17) -27	18) -68
19) -156	20) -93

----------HOMEWORK 1 ENDS HERE ----------