

Homework 1 (Data Representation, Architecture)

Note: Submission of this Homework Assignment is optional. It will not be graded but if you do it, you might be better prepared for exams. I will provide solution to this homework. All exams will be multiple choice on Canvas so you should know your material very well.

The following problems are from your Irvine Textbook Ed 7

Q1 Page 28, sec 1.7.1. Do the following problems: 1,5,9,13,17,21

Q2. Page 52, sec2. 8. Do the following problems: 1,5,9,13,17,21,25

SUBMISSION (OPTIONAL): Submit Electronically via *Canvas*. FileName must be according to the format specified in the course syllabus.

SOLUTIONS

Chapter 1

1.7.1 Short Answer Questions

1. Most significant bit (the highest numbered bit).
5. (a) 16 (b) 32 (c) 64 (d) 128
9. (a) 58 (b) 447 (c) 4097
13. (a) 27641 (b) -16093
17. (a) 11111011 (b) 11010110 (c) 11110000
21. 42h and 66d

Chapter 2

2.8.1 Short Answer Questions

1. EBP
5. True
9. True
13. True
17. False
21. True
25. Hardware, BIOS, and OS AND High Level Language

