**Lab 1: Pre-Lab Activities**

FAST - National University of Computer Science  
***Computer Organization & Assembly Language, Fall 2017***

**Question 1:** Convert the following decimal values to binary:

a) 257 b) 3096 c) 156 d) 12,494

**Question 2:** Convert the following binary values to decimal:

a) 0000 1011 b) 0111 0000 c) 1110 0101 d) 1111 0100

**Question 3:** Convert the following binary values to hexadecimal:

a) 1001 1011 b) 1101 1101 c) 1110 0011 d) 1001 0101

**Question 4:** Write two’s complement of following hexadecimal values:

a) BEEF b) FFEF c) DCBA d) DEAD

**Question 5:** How many bits are required to represent each digit in a base-6 number?

**Question 6:** Convert the following decimal values to base-3 numbers:

a) 190 b) 126 c) 333 d) 127