Introduction to ComputING

Section G

Exercises 1 - Number System

August 2014

1. What is the hexadecimal representation of these numbers: (301)10, (180)10, (55)8
2. The following numbers are in decimal system. Convert them to octal system:

21, 35, 102

1. The following numbers are in binary. Convert them to hexadecimal and octal:

11101110, 1010001, 010111011

1. The following number is in base 6. Convert it to base 5. Show all steps.

(2310)6

1. What is the decimal representation of the following numbers:

(11010111)2, (AC1F)16, (132)4

1. You have a secret number system in base 5. The 5 symbols used to represent the numbers 0, 1, 2, 3, 4 are \*, @, $, %,? respectively.
2. What is the decimal representation of these three numbers: @@, %?$, \*$@
3. What is the representation of (6F)16 in the new system