CSS 422: Hardware and Computer Organization

Exercise 1

	Name:
Q1. D	ecimal to any base number system:
1)	Convert 68,456 (decimal) to the number with base 17
	Ex) $73,503_{10} \rightarrow EG5C_{17}$
2)	Convert the number 4369 (base 9) to decimal
Q2. D	ecimal and Binary:
1)	Convert the following decimal to binary
	64,200
2)	Convert the following binary to decimal

011001100001101

O3.	Binary	and	Octal

- 1) Convert the following Binary to Octal
- Ex) $110000010111111011 \rightarrow 301373$

01011010111110011

2) Convert the following Octal to Binary

Ex) $301373 \rightarrow 11000001011111011$

73503

Q4. Binary and Hex:

- 1) Convert the following Binary to Hex
- Ex) $110000010111111011 \rightarrow 182FB$

1101011010111110011

- 2) Convert the following Hex to Binary
- Ex) $182FB \rightarrow 110000010111111011$

A301F1