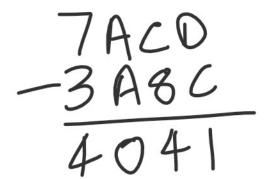# Lab 1 (b): Problem 1

- Subtract the following hexadecimal numbers

  7ACD - 3A8C = ?

  Show the computation in details with all the carries. Result should be Hexadecimal

$$
\begin{array}{r}
7ACD \\
-3A8C \\
\hline
4041
\end{array}
$$

0   5   A   F — 10
1   6   B
2   7   C — 12
3   8   D
4   9   E — 13

Lab 1 (b) Problem 2

- Convert 01110110 into 2's Complement form.

$0 \rightarrow 1; \quad 1 \rightarrow 0; \quad$ add 1 at the end

$01110110 \rightarrow 10001001$
$\qquad\qquad\qquad\qquad\qquad + 1$
$\qquad\qquad\qquad\qquad\qquad 10001010$

Lab 1 (b) Problem 3

- Subtract the following Octal numbers

765 − 321

Show the steps with carries. Result is a octal number

$$
\begin{array}{r}
765 \\
-321 \\
\hline
444
\end{array}
$$

0
1
2
3
4
5
6
7