04.11.2021

ADNAN MENDERES UNIVERSITY
Faculty of Engineering
Electrical and Electronics Engineering

EE312 MICROPROCESSORS LABORATORY

EXP 3: Arithmetic and logic operations

Laboratory Work:

1. Solve the below problems.

$(1001\ 0110)_2=(\ldots\ldots)_8$

$(27)_{16}=(\ldots..)_{10}$

$(B7)_{16}=(\ldots..)_2$

2. Solve the below arithmetic and logic problems.

$(B7)_{16}+(1A)_{16}=(\ldots\ldots)_{16}$

$(B7)_{16}$ AND $(1A)_{16}= (\ldots.)_{16}$

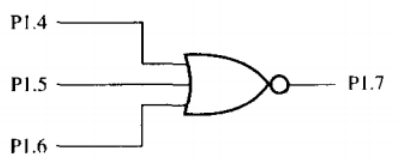
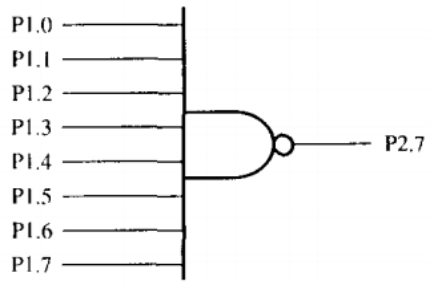
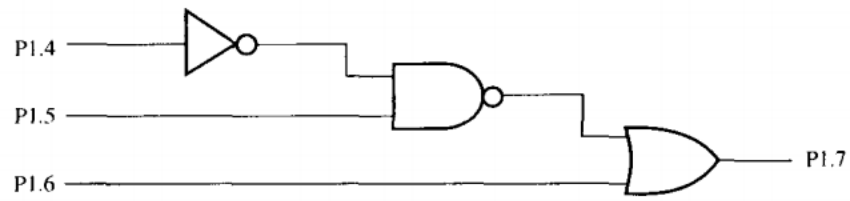
$(B7)_{16}$ OR$(1A)_{16}= (\ldots.)_{16}$

4. Write down an assembly code that performs the given mathematical operations:

$m+n-1$(use dec)	y+v-t	$xy+1$ (use inc)	z+$y-m-n$	$x+u+mt$

x	y	z	t	u	v	m	n
11	95	179	8	92	146	5	89

5. Write down an assembly code that performs the given logical operations:

SOME USEFUL COMMENDS: ADD, INC, SUBB, DEC,MUL, DIV, ANL, ORL, XRL, CPL, RL, RR, SETB, CLR