

Assignment 9 Mikrokontrollere

Gruppe 9

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Task 1

Sluttverdien er: 0

Task 2

Sluttverdien er: 1

Task 3

Sluttverdien er: 1

Task 4

Sluttverdien er: 1

Task 5

Desimal	Binær	Hex
97	0110 0001	0x61
193	1100 0001	0xC1
175	1010 1111	0xAF
256	1 0000 0000	0x100
255	1111 1111	0xFF
55	0011 0111	0x37

Task 6

- a) $10 \mid 20 == 30$
- b) $(0xAA \mid 0x55) \& 0x62 == 98$

Utrekningseksempel på 6b

TASK 6.6

0x62	0	1	1	0	0	0	1	0
0x55	0	1	0	1	0	1	0	1
0xAA	1	0	1	0	1	0	1	0

2048 1024 512 256 128 64 32 16 8 4 2 1

(0x55 | 0xAA) & 0x62

128	1	1	1	1	1	1	1	1
+ 32	0	1	1	0	0	0	1	0
+ 8	0	1	1	0	0	0	1	0
+ 2	0	1	1	0	0	0	1	0
170								

c) $\sim((0x75 | 0x16) \& (0x0C | 0x48)) == 187$

Task 7

- a) $1 \ll 3 == 8$
- b) $2 \ll 3 == 16$
- c) $15 \ll 4 == 240$
- d) $0x00F \ll 4 == 240$
- e) $128 \gg 1 == 64$
- f) $48 \gg 2 == 12$
- g) $240 \gg 4 == 15$
- h) $0xF0 \gg 4 == 0$