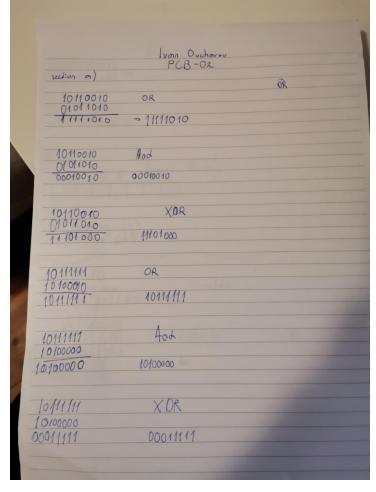
Ivan Georgiev Ovcharov

Student number: 4090993

PCB-02 Fontys ICT

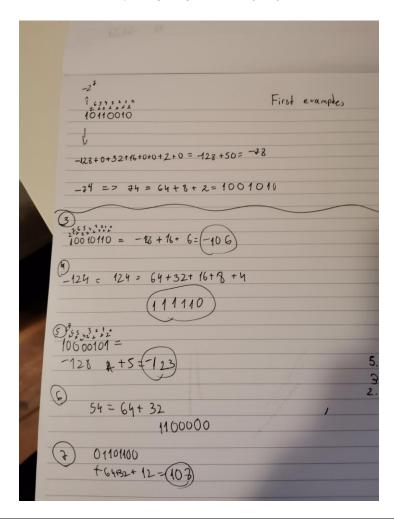
Bitwise operations	Result
10110010 OR 1011010	11111010
10110010 AND 1011010	00010010
10110010 XOR 1011010	11101000
10111111 OR 10100010	10111111
10111111 AND 10100010	10100000
10111111 XOR 10100010	00011111
NOT 10110010	01001101
NOT 10100010	01011101



Signed - Binary	Decimal
10110010	-78
110110	-74
10010110	-106
1111100	-124
10000101	-123
01100000	94
01101100	108

$$10110010 = -128 + 0 + 32 + 16 + 0 + 0 + 2 + 0 = -78$$

$$-74 = 64 + 8 + 2 = 110110$$



Calculation	Binary result	Decimal result
00000101 + 00000011	1000	8
00001101 + 00011000	100101	37
00110011 + 01010101	10001000	136

11100111 + 00100001	100001000	132	
11001001 + 01011011	100001000	264	

11001001 + 01011011 = 100001000

1+1=0 but we carry a 1

1+1+1 = 1 and we carry 1

