ALU OPERATION'S

OP-Code		Operation	description
0000 0x0	ADD	*A + B*	add
0001 0x1	ADC	*A + B + C*	add with carry
0010 0x2	SUB	*A - B*	subtraction
0011 0x3	SBC	*A - B - C*	subtraction with carry
0100 0x4	INC	*A + 1*	increment A by 1
0101 0x5	DEC	*A - 1*	decrement A by 1
0110 0x6	AND	*A & B*	logical AND
0111 0x7	OR	*A | B*	logical OR
1000 0x8	XOR	*A ^ B*	logical XOR
1001 0x9	NOT	*~B*	Invert B
1010 0xa	NEG	*~B + 1*	2's compliment of B
1011 0xb	SHL	*B << 1*	logical left shift by 1
1100 0xc	LRS	*B >>> 1*	logical right shift by 1
1101 0xd	ARS	*B >> 1*	arithmetical right shift by 1
1110 0xe	ROL	*(B << 1) | (B >> (0xFF - 1))*	rotate bits left by 1
1111 0xf	ROR	*(B >> 1) | (B << (0xFF - 1))*	rotate bits right by 1

ALU_Right = A
ALU_Left = B