Instructions		Machine Code						ALU Code	ID	Control Lines										
		op [31:26]	rs [25:21]	rt [20:16]	rd [15:11]	sh [10:6]	fn[5:0]	ALU Code	JR	RegDst [1:0]	RegData[1:0]	RegWr	ALUSrc	ALUOp[3:0]	MemWr[1:0]	MemRd[1:0] Me	emtoReg	Jump	Beq	Bne
R-Format	add \$t1, \$t2, \$t3	0	\$t2	\$t3	\$t1	0	32	6	() 1	1	. 1	. 0	0	0	0	0	0) (0
	sub \$t1, \$t2, \$t3	0	\$t2	\$t3	\$t1	0	34		(1	. 1	. 1	. 0	0	0	0	0	0) (0
	and \$t1, \$t2, \$t3	0	\$t2	\$t3	\$t1	0	36	0	(1	. 1	. 1	. 0	0	0	0	0	0) (0 ر
	or \$t1, \$t2, \$t3	0	\$t2	\$t3	\$t1	0	37	1	(1	. 1	. 1	. 0	0	0	0	0	0) (0 (
	xor \$t1, \$t2, \$t3	0	\$t2	\$t3	\$t1	0	38	4	(1	. 1	. 1	. 0	0	0	0	0	0) (0 (
	nor \$t1, \$t2, \$t3	0	\$t2	\$t3	\$t1	0	39	3	(1	. 1	. 1	. 0	0	0	0	0	0) (0 (
	slt \$t1, \$t2, \$t3	0	\$t2	\$t3	\$t1	0	42	12	(1	. 1	. 1	. 0	0	0	0	0	0) (0 (
	sll \$t1, \$t2, 5	0	0	\$t2	\$t1	5	0	13	(1	. 1	. 1	. 0	0	0	0	0	0) (0 (
	srl \$t1, \$t2, 5	0	0	\$t2	\$t1	5	2	14	(1	1	. 1	. 0	0	0	0	0	0) (0
	sra \$t1, \$t2, 5	0	0	\$t2	\$t1	5	3	15	(1	1	. 1	. 0	0	0	0	0	0) (0
	jr \$ra	0		\$ra	0	0	8	DNE		L x	x	0	x	(NOP) 11	0	0	0	2	. c	0 (
	addi \$t1, \$t2, 5	8	\$t2	\$t1	16	5-bit immideat	:e	6	(0	1	. 1	. 1	6	0	0	0	0) (0
	andi \$t1, \$t2, 5	12	\$t2	\$t1	16-bit immideate			0	(0	1	. 1	. 1	0	0	0	0	0) (0 (
	ori \$t1, \$t2, 5	13	\$t2	\$t1	16-bit immideate			1	(0	1	. 1	. 1	1	0	0	0	0) (0 (
	xori \$t1, \$t2, 5	14	\$t2	\$t1	16-bit immideate			4	(0	1	. 1	. 1	4	0	0	0	0) (0 (
	slti \$t1, \$t2, 5	10	\$t2	\$t1	16	6-bit immideat	:e	12	(0	1	. 1	. 1	12	0	0	0	0) (0 (
	lui \$t1, 5	15	0	\$t1	16	5-bit immideat	e	6	(0	2	1	. x	(NOP) 11	0	0	0	0) (0
	lw \$t1, 8(\$t2)	35	\$t2	\$t1	16	6-bit immideat	:e	6	(0	1	. 1	. 1	6	0	1	1	0) (0 (
	lh \$t1, 6(\$t2)	33	\$t2	\$t1	16	5-bit immideat	e	6	(0	1	. 1	. 1	6	0	2	1	0) (0
	lb \$t1, 5(\$t2)	32	\$t2	\$t1	16	5-bit immideat	e	6	(0	1	. 1	. 1	6	0	3	1	0) (0
	sw \$t1, 8(\$t2)	43	\$t2	\$t1	16	6-bit immideat	:e	6	(x	x	0	1	6	1	0	0	0) (0
	sh \$t1, 6(\$t2)	41	\$t2	\$t1	16	6-bit immideat	:e	6	(x	x	0	1	6	2	0	0	0) (0
	sb \$t1, 5(\$t2)	40	\$t2	\$t1	16	6-bit immideat	:e	6	(x	x	0	1	6	3	0	0	0) (0 (
	beq \$t1, \$t2, Label	4	\$t2	\$t1	1	16-bit address		7	(x	x	0	0	7	0	0	0	0) 1	. 0
	bne \$t1, \$t2, Label	5	\$t2	\$t1	1	16-bit address		7	(Х	x	0	0	7	0	0	0	0) (1
J-Format	j Label	2						DNE	() x	х	0) x	(NOP) 11	0		0		. 0	0
	jal Label	3			26-bit addres	s		DNE		2	C	1	. x	(NOP) 11	0	0	0	1	. 0	0