OPCODE	INSTRUCTION	DESCRIPTION
00000	SUB	Subtracts two registers and puts the value in a third register
00001	SUBI	Subtracts one register and an immediate value and puts the value in a third register
00010	ADD	Adds two registers and puts the value in a third register
00011	MUL	Multiply two registers values and puts the value in a third register
00100	DIV	Divides the two registers value and puts the value in a third register
00101	ADDI	Adds the value of one register and an immediate value and puts the value in a third register
00110	MULI	Multiply one register value and immediate value puts the value in a third register
00111	DIVI	Divides one register value and immediate value puts the value in a third register
01000	AND	Bit wise AND of two register values and places the out put in a third value
01001	OR	Bit wise OR of two register values and places the out put in a third value
01010	XOR	Bit wise XOR of two register values and places the out put in a third value
01011	ANDI	Bit wise and of a register value and immediate value ,places the out put in a third value

ORI	Bit wise OR of a register value and immediate value ,places the out put in a third value
XORI	Bit wise XOR of a register value and immediate value ,places the out put in a third value
INV	Inverts the value of a register and places the new value in a register
СОМР	Compares between the values of two registers, and executes the next instruction if the result is 0 or skip it if else
SHL	Shifts the value of register to the left
SHR	Shifts the value of register to the right
	XORI

1 0 1 0	JREG	Jumps to a register
1 1 0 0 0	READ	Reads the value of a memory address using a the value of a register
1 1 0 0 1		
1	WRT	Writes a value of a register into the memory
1 1 0 1 0 1 1 0 1 1	READI	Reads from a memory address
1 1 0 1		nead nom a memory address
1	WRTI	Writes the value of a register to a memory location

NAME	DESC
ZEROS	All zeros for bit wise operations
ONES	All ones for bit wise operations
PC	Program counter
ZERO	Contains one zero
ONE	Contains one
REG0	General purpose register
REG1	General purpose register
REG2	General purpose register
REG3	General purpose register
REG4	General purpose register
REG5	General purpose register
REG6	General purpose register
REG7	General purpose register
REG8	General purpose register
REG9	General purpose register
REG10	General purpose register
REG11	General purpose register
REG12	General purpose register
REG13	General purpose register
REG14	General purpose register
REG15	General purpose register
REG16	General purpose register
	ZEROS ONES PC ZERO ONE REGO REG1 REG2 REG3 REG4 REG5 REG6 REG7 REG8 REG9 REG10 REG11 REG12 REG12 REG13 REG14 REG14 REG15

10110	REG17	General purpose register
10111	REG18	General purpose register
11000	REG19	General purpose register
11001	ARG0	Register for arguments
11010	ARG1	Register for arguments
11011	ARG2	Register for arguments
11100	ARG3	Register for arguments
11101	RETO	Register for return values
11110	RET1	Register for return values
11111	RA	Register to store a return address