Instruction:	Machine Code Forma	at: Functionality:	Range:
LOAD Rd,Ra	x 011 dd aa	\$Rd = MEM[\$Ra]	Rd:{R0,R1,R2,R3}
STR Rd,Ra	x 100 dd aa	MEM[\$Ra] = \$Rd	Rd:{R0, R1, R2, R3}
INIT Rd,imm	x 010 ddd i	\$Rd = imm	Rd:{R0R7}; imm[0,1]
ADDI Rd, imm	x 00 dd iii	\$Rd = \$Rd+imm	Rd:{R0R4}; imm[-4,3]
COMP Rd	x 0000 ddd	\$Rd = [2's complement]	Rd:{R0R7}
MOV Rd, Rs	x 1 ddd sss	\$Rd = \$Rs	Rd: {R0R7}
SLT Rd, Rs	x 0 ddd sss	\$Rd < \$Rs,Branch = 1	Rd:{R0R7}
ADD Rd, Rs	x 110 dd ss	\$Rd = \$Rd + \$Rs	Rd:{R0R3}
LSL Rd,imm	x 01 dd iii	\$Rd = \$Rd < <imm< td=""><td>Rd:{R0R3}; imm[0,7]</td></imm<>	Rd:{R0R3}; imm[0,7]
B imm	x 10 iiiii	ifBranch=1(PC+=imm)	imm[-16,15]
BZ imm	x 101 iiii if \$	oranch = 0, PC = PC + imm, else PC++	imm[-8, 7]
j imm	x 11 iiiii	PC = PC+imm	imm[-16,15]
END	11111111	Finishes Program	

X = parity bit