add	addi
newPC = PC+4	newPC = PC+4
PC = newPC	PC = newPC
inst = Mem[PC]	inst = Mem[PC]
a = Reg[inst[19:15]]	a = Reg[inst[19:15]]
b = Reg[inst[24:20]]	imm = SE(inst[31:20])
result = a + b	result = a + imm
Reg[inst[11:7]] = result	Reg[inst[11:7]] = result

lw	sw
newPC = PC+4	newPC = PC+4
PC = newPC	PC = newPC
inst = Mem[PC]	inst = Mem[PC]
a = Reg[inst[19:15]]	a = Reg[inst[19:15]]
	b = Reg[inst[24:20]]
imm = SE(inst[31:20])	imm = SE({inst[31:25], inst[11:7]})
result = a + imm	result = a + imm
memOut = Mem[result]	Mem[result] = b
Reg[inst[11:7]] = memOut	

beq
newPC = PC+4
PC = newPC
inst = Mem[PC]
a = Reg[inst[19:15]]
b = Reg[inst[24:20]]
imm = SE({inst[31], inst[7], inst[30:25], inst[11:8]})<<1
target = PC + imm
if(a == b) PC = target