**1.bleRs, Rt, Label**

**✓Branch on lessthanor equal;**

**If (𝑅𝑠≤𝑅𝑡) then branch to label**

slt $at, Rt, Rs

beq $at, $0, Label

**2.sadRd, Rs, Rt**

**✓Absolutedifference;**

**Rd = absolutevalue (Rs-Rt)**

Sub $at, Rs, Rt

Addu Rd, $0, $at

Bgez $at, 1

Sub Rd, $0, $at

**3.slei Rd, Rs, Constant**

**✓Set on less than or equal immediate;**

**If (𝑅𝑠≤𝐶𝑜𝑛𝑠𝑡𝑎𝑛𝑡) then 𝑅𝑑=1, else 𝑅𝑑=0.**

addi $at, $0, constant

bne $at, Rs, yes

ori Rd, $0, 1

beq $0, $0, skip

yes: ori Rd, $0, 0

skip:

**4.bgeo Rs, Label**

**✓Branch on greater than or equal to one;**

**If (𝑅𝑠≥1) then branch to label**

Addi $at, $0, 1

Sltu $at, Rs, $at

Bne $at, $0, Label

**5.xnop**

**✓No Operation–implemented with xor**

Xor Rd, Rs, Rt

Or $0, $0, $0