```
if (a > 0)
          a = a + b + c + d + e;
else
          a = a - b - c - d - e;
```

(a) C code

```
                                  #r1 points to a,
                                  #r1+4 points to b,
                                  #r1+8 points to c,
                                  #r1+12 points to d,
                                  #r1+16 points to e.
        lwz    r8=a(r1)           #load a
        lwz    r12=b(r1,4)        #load b
        lwz    r9=c(r1,8)         #load c
        lwz    r10=d(r1,12)       #load d
        lwz    r11=e(r1,16)       #load e
        cmpi   cr0=r8,0           #compare immediate
        bc     ELSE,cr0/gt=false  #branch if bit false
IF:
        add    r12=r8,r12         #add
        add    r12=r12,r9         #add
        add    r12=r12,r10        #add
        add    r4=r12,r11         #add
        stw    a(r1)=r4           #store
        b      OUT                #unconditional branch
ELSE:
        subf   r12=r12,r8         #subtract
        subf   r12=r9,r12         #subtract
        subf   r12=r10,r12        #subtract
        subf   r4=r12,r11         #subtract
        stw    a(r1)=r4           #store
OUT:
```

(b) Assembly code

Figure 13.13 Code Example with Conditional Branch [WEIS94]