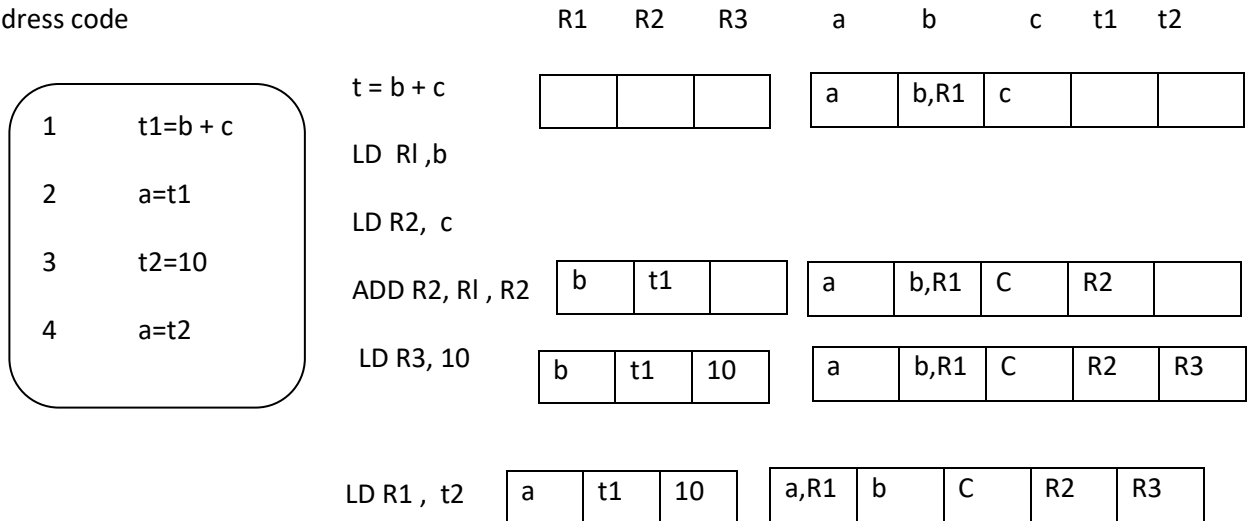


1. Assignment statements: $a = b + c$; $a = 10$;
2. If-else statement: if (a) $a = 10$; else $b = 20$;
3. While statement : Put a while loop in the above two statements .

1. Assignment statements: $a = b + c$; $a = 10$;

3- address code



Quadruples

op	arg1	arg2	result
+	b	c	t1
=	t1	—	a
=	10	—	t2
=	t2	—	a

Triples

	op	arg1	arg2
0	+	b	c
1	=	(0)	—
2	=	10	—
1	=	(2)	—

2. If-else statement: if (a) a =10; else b = 20;

L0: t0=a

IFZ t0 Goto L1

t1=10

a=t1

Goto L2

L1:

t2=20

b=t2

Goto L2

L2:

exit

3. While statement : Put a while loop in the above two statements .

L1: t0=a

IFZ t0 Goto L2

t1=b + c

a=t1

t2=10

a=t2

L00: t3=a

IFZ t3 Goto L01

t4=10

a=t4

Goto L02

L01:

t5=20

b=t5

Goto L02

L02:

exit

Goto L1

L2:

exit