I A) three address for code.

1. $t_1 = 0$

2. $i = 0$

3. $t_2 = i * y$

4. $t_3 = a[t_2]$

5. $t_4 = b[t_2]$

6. $t_5 = t_3 * t_4$

7. $dp = dp + t_5$

8. $i = i + 1$

9. goto 3.

→ Jump to line 3 (4) repeat the loop.

Three Addres Code

(1) if (a<9) goto (3)

(2) goto (4)

(3) if (c<0) goto (6)

S:nlo = 33

(4) t=0

(5) goto (7)

(6) t=1

(7)

3. Generator three address code

```
c=0
do
{
    if (a <b) then
        x++;
    else
        x--;
    c++;
} while (c<5)
```

Ⓐ Three addreu code

1. c=0

2. if (a<b) goto (4)

3. goto (7)

4. $T_1 = x+r$

5. $x=T_1$

6. goto (9)

7. $T_2 = x-1$

8. $x=12$

9. $T_3 = c+1$

10. $c=T_3$

11. if (c<5) goto (2)

12.