Q. Implement Intermediate code generation for simple expression.

expression - (a+b) * (c+d) + (a+b+c)

Three address code

1. t1=Q+b

2. t2= c+d

3. t3 = H *+2

4. H= H+c

5. ts = +3+ t4

=> Triples representation

| Location | Operator | Ang 1 | Aug2 |
|------------|----------|------------|-------|
| (0) | + | α | Ь |
| (1) | + | c · | d |
| (2) | * | (0) | (1) |
| (3) (4) | + + | (b) (2) | C (3) |

=> Quadruple representation

| location | Operator | Aug 1 | Ang2 | Result |
|----------|----------|-------|------|--------|
| (0) | † | a | Ь | ti |
| (1) | + | с | d | h |
| (2) | * | (0) | (1) | ts. |
| (3) | + | c | (0) | ځч |
| (4) | + | (2) | (3) | 坎 |

=> Indirect representation

| Location | Aug 1 | Анд2 | Орснаточ |
|----------|-------|------|----------|
| (6) | a | Ь | + |
| CIS | c | d | + |
| (2) | (6) | (1) | * |
| (3) | (0) | C | + |
| (4) | (3) | (2) | * |

| Location | Statement |
|----------|-----------|
| (14) | (0) |
| CIS) | (I) |
| (16) | W |
| (14) | (3) |
| (18) | (4) |