**CD ASSIGNMENT**

**1.translate the expression –( a + b) \* ( c + d) + ( a + b +c) into quadruples triples indirect triples?**

**ANS:**

**3 address code**

t1= a + b

t2= c + d

t3= t1\* t2

t4= a + b

t5= t4+ c

t6= t3- t5

**Quadruples**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Operation | op1 | op2 | Result |
| 1 | + | a | b | t1 |
| 2 | + | c | d | t2 |
| 3 | \* | t1 | t2 | t3 |
| 4 | + | a | b | t4 |
| 5 | + | t4 | c | t5 |
| 6 | - | t3 | t5 | t6 |

**Triple**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Operation | op1 | op2 |
| 1 | + | a | b |
| 2 | + | c | d |
| 3 | \* | (2) | (3) |
| 4 | + | a | b |
| 5 | + | (4) | c |
| 6 | - | (3) | (5) |

**Indirect Triple**

**1.(1)**

**2.(2)**

**3.(3)**

**4.(4)**

**5.(5)**

**6.(6)**

2.explain the various methods to handle peephole optimization?

ANS:

3.What are the various object code forms ?expalin the issues in code generation?

ANS:

4.explain the data flow equation are set up and solved for improving code?

ANS:

5.construc the DAG for the equn ((x+y)-(x+y)