Task 01

Input (A)	Input (B)	Output(Y)
0	0	1
0	1	0
1	0	1
1	1	1
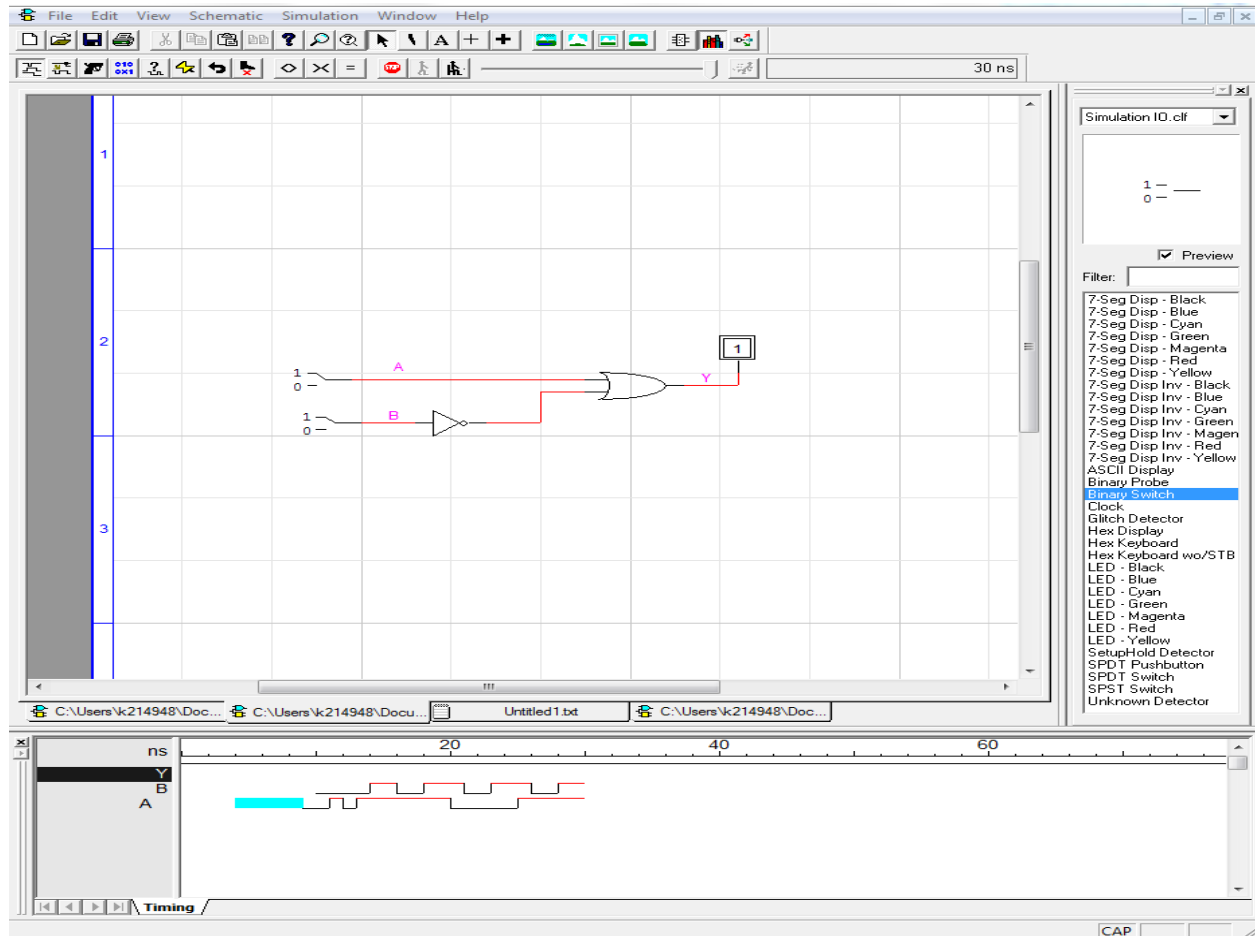
Task 02

Input (X)	Input (Y)	Input (Z)	Output (F)
0	0	1	0
0	1	1	1
1	0	0	0
1	1	0	0
0	0	1	0
0	1	1	1
1	0	0	0
1	1	0	0
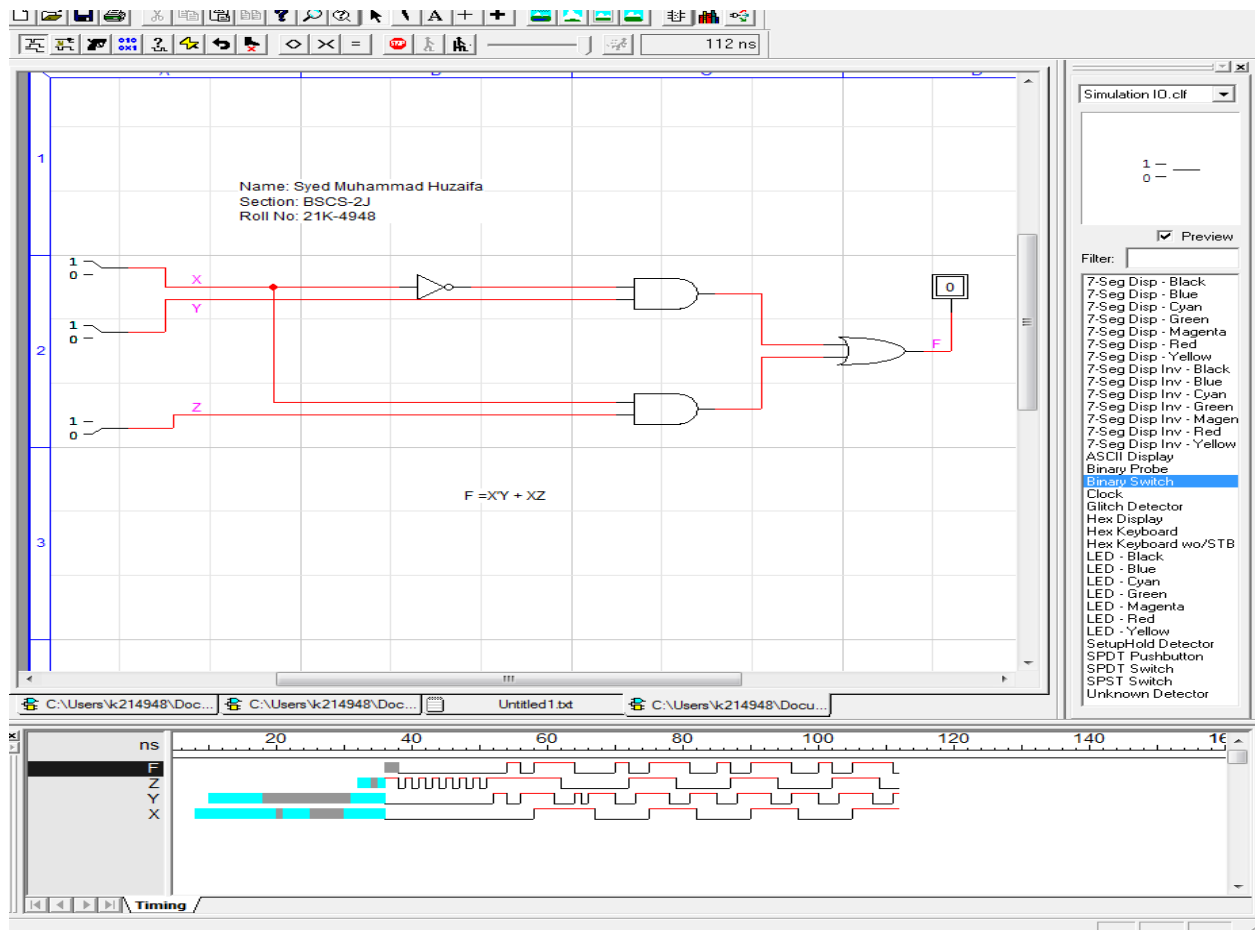
Input (A)	Input (B)	Input (C)	Input (D)	Output (F)
0	0	1	0	0
0	1	1	0	0
1	0	0	0	1
1	1	0	0	0
0	0	1	1	0
0	1	1	1	0
1	0	0	1	0
1	1	0	1	0
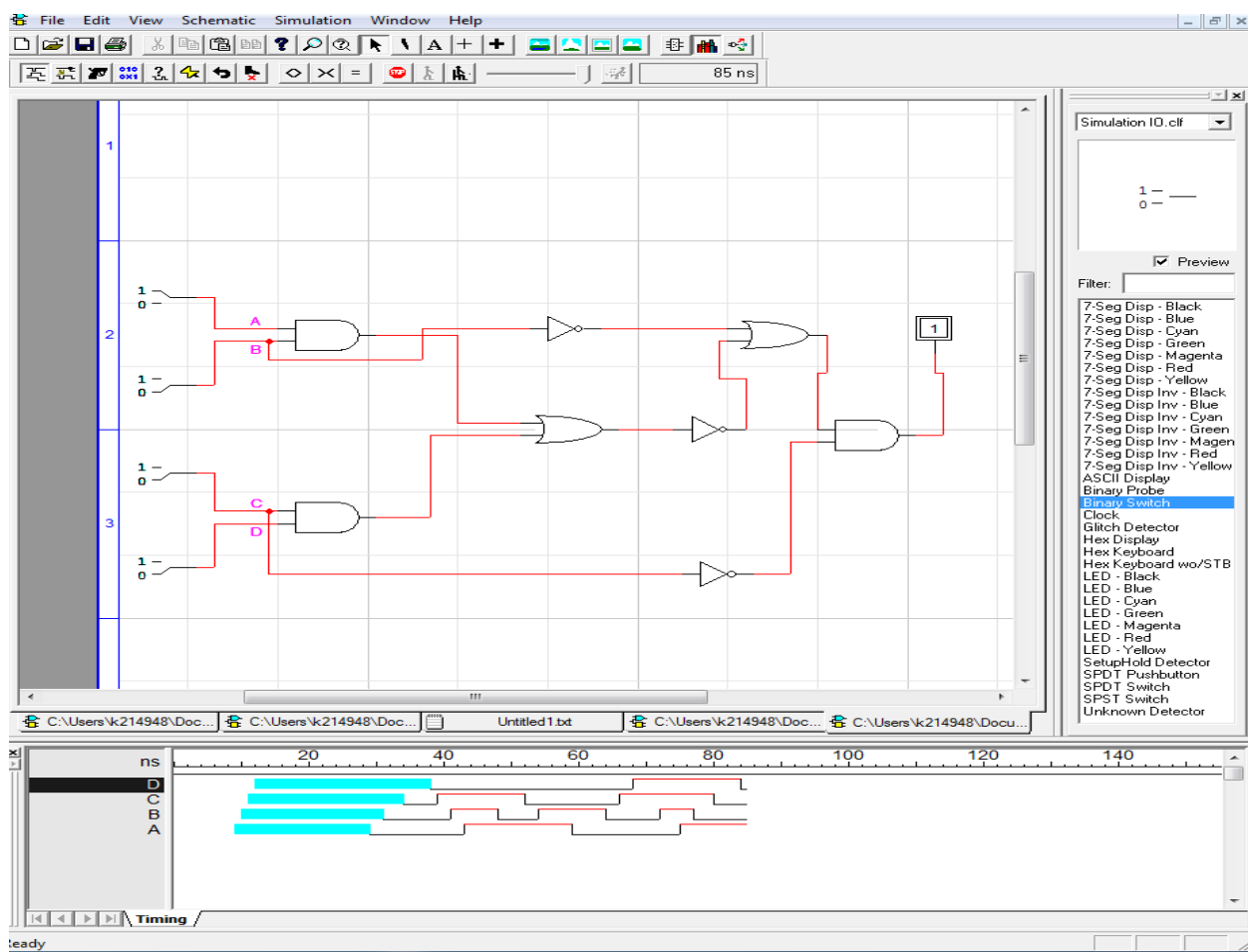
Task 04

1. F = A + A'B

Input (A)	Input (B)	Output(F)
0	0	0
0	1	1
1	0	1
1	1	1
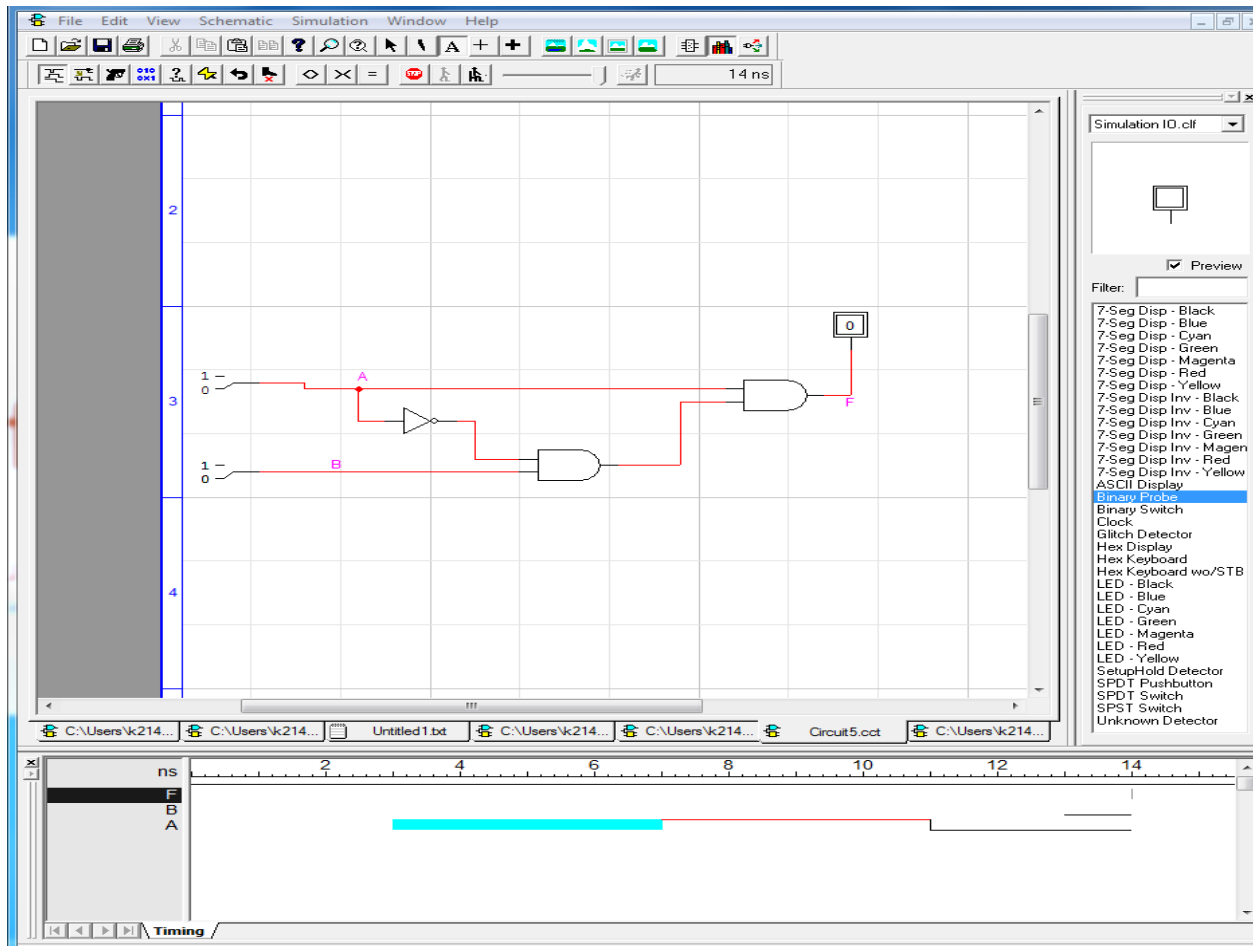
2. F = (A+B)(A+C)

Input (A)	Input (B)	Input (C)	Output(F)
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	1
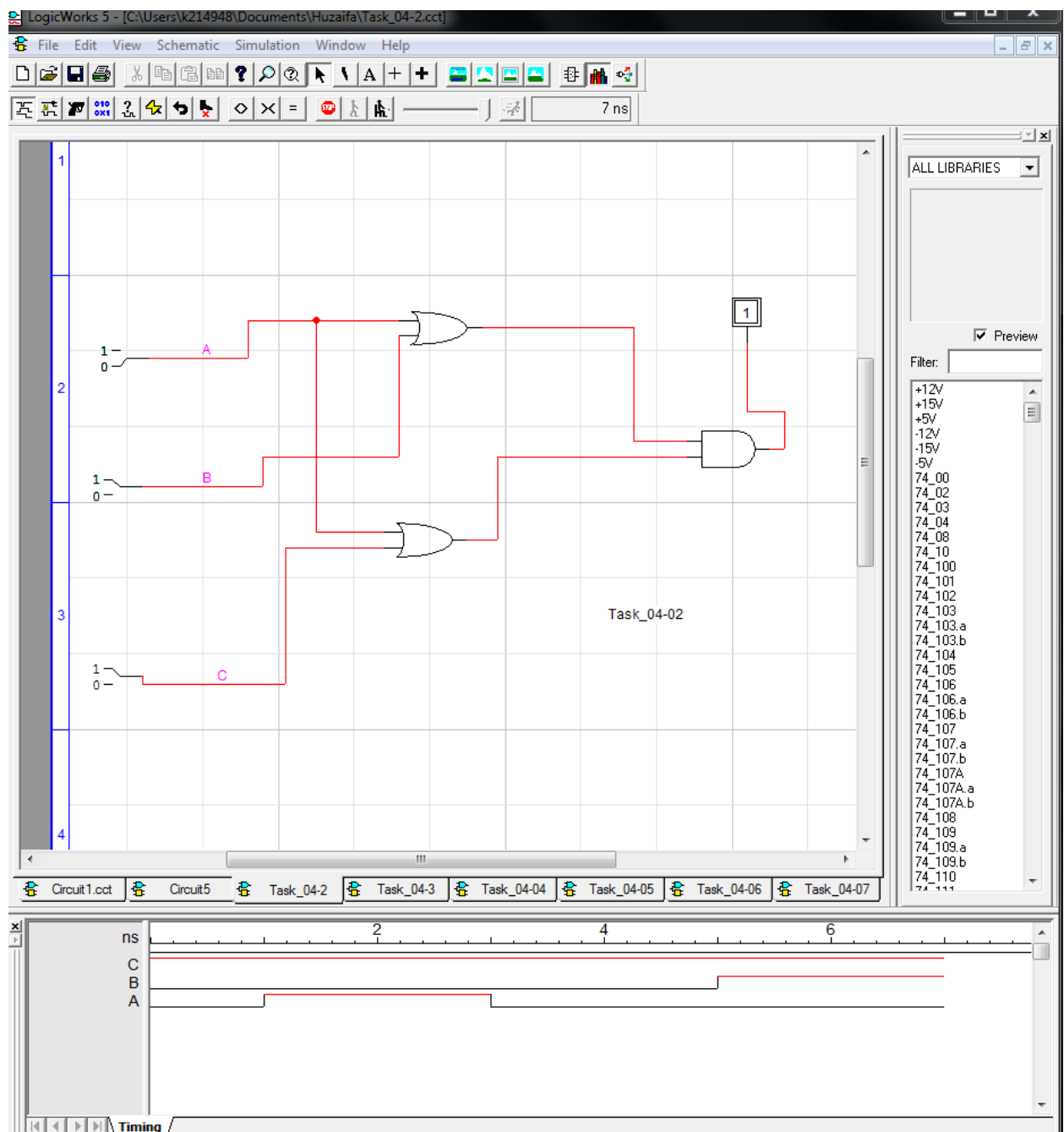
3. F = AB + A(B+C)+(B+C)

Input (A)	Input (B)	Input (C)	Input (D)	Output(F)
0	0	0	0	0
0	0	0	1	0
0	0	1	1	0
0	1	1	1	0
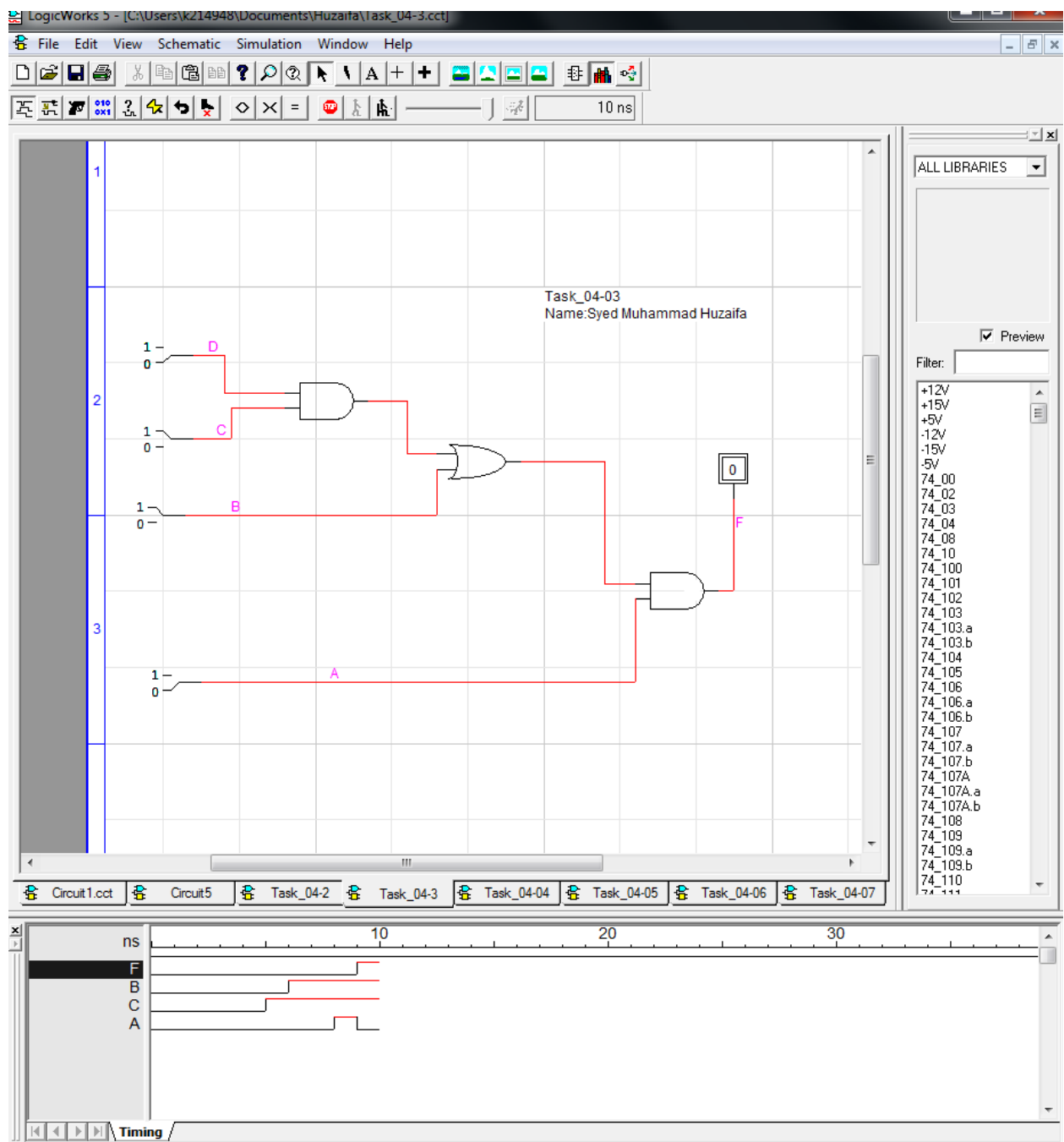
4. F = AB + A(B+C)+(B+C)

Input (A)	Input (B)	Input(C)	Output(F)
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	1
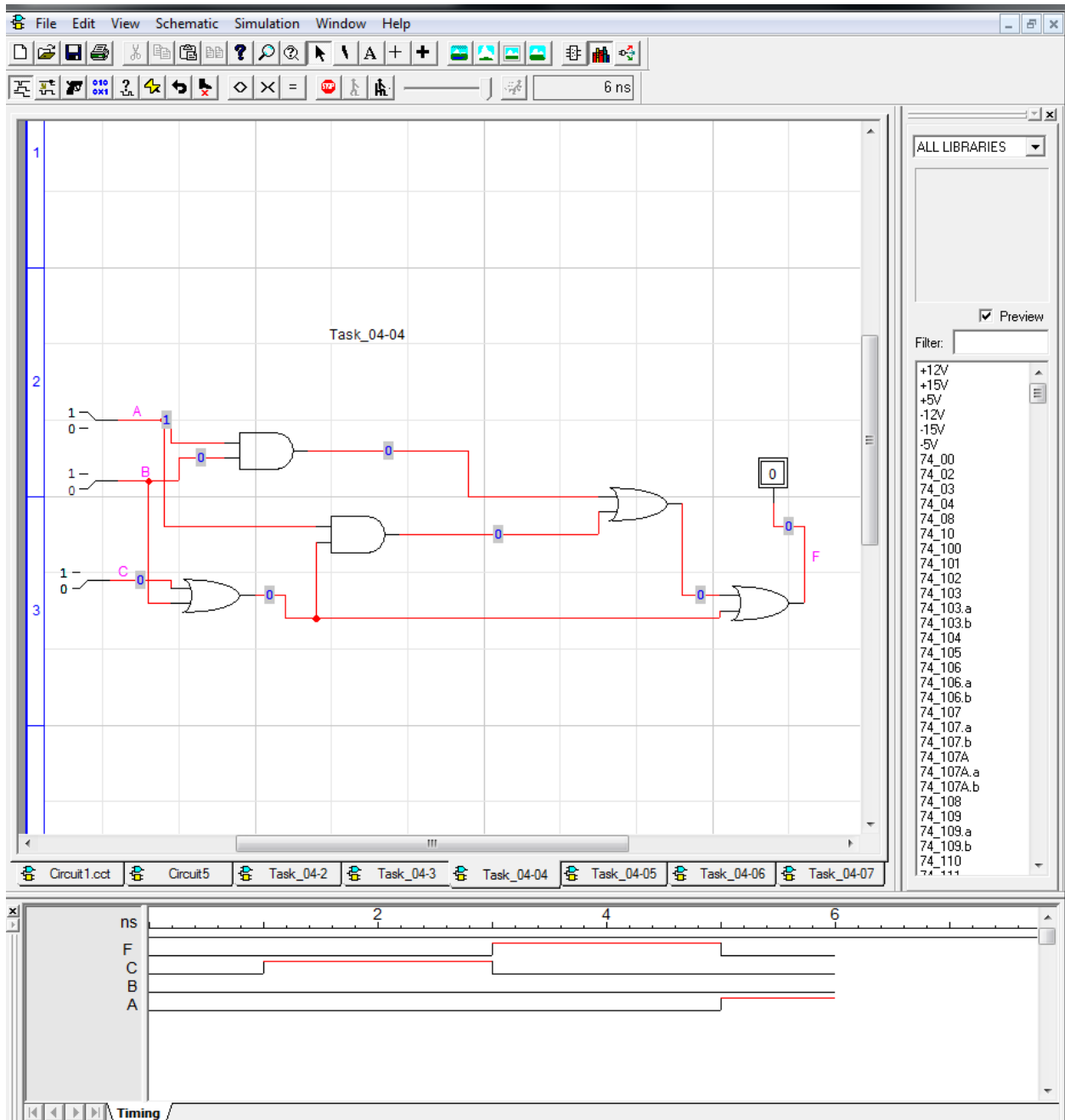
5. F = X(YZ) + X'Y + (XY)Z'

Input(X)	Input(Y)	Input(Z)	Output(F)
0	0	0	0
0	0	1	0
0	1	0	1
0	1	1	1
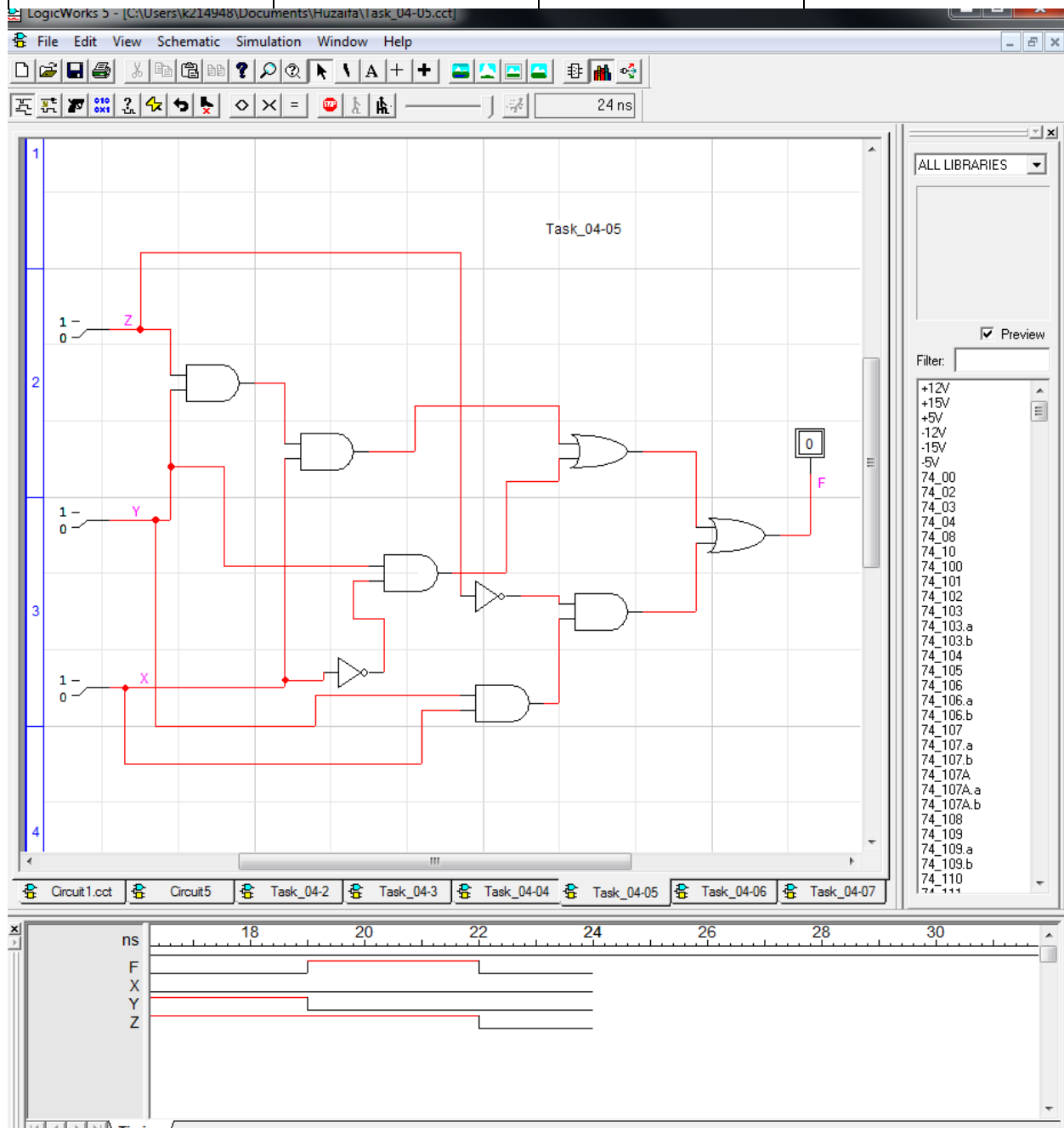
6.   F = B'C + AC'

Input(A)	Input(B)	Input(C)	Output(F)
0	0	0	0
0	0	1	1
0	1	0	0
0	1	1	0
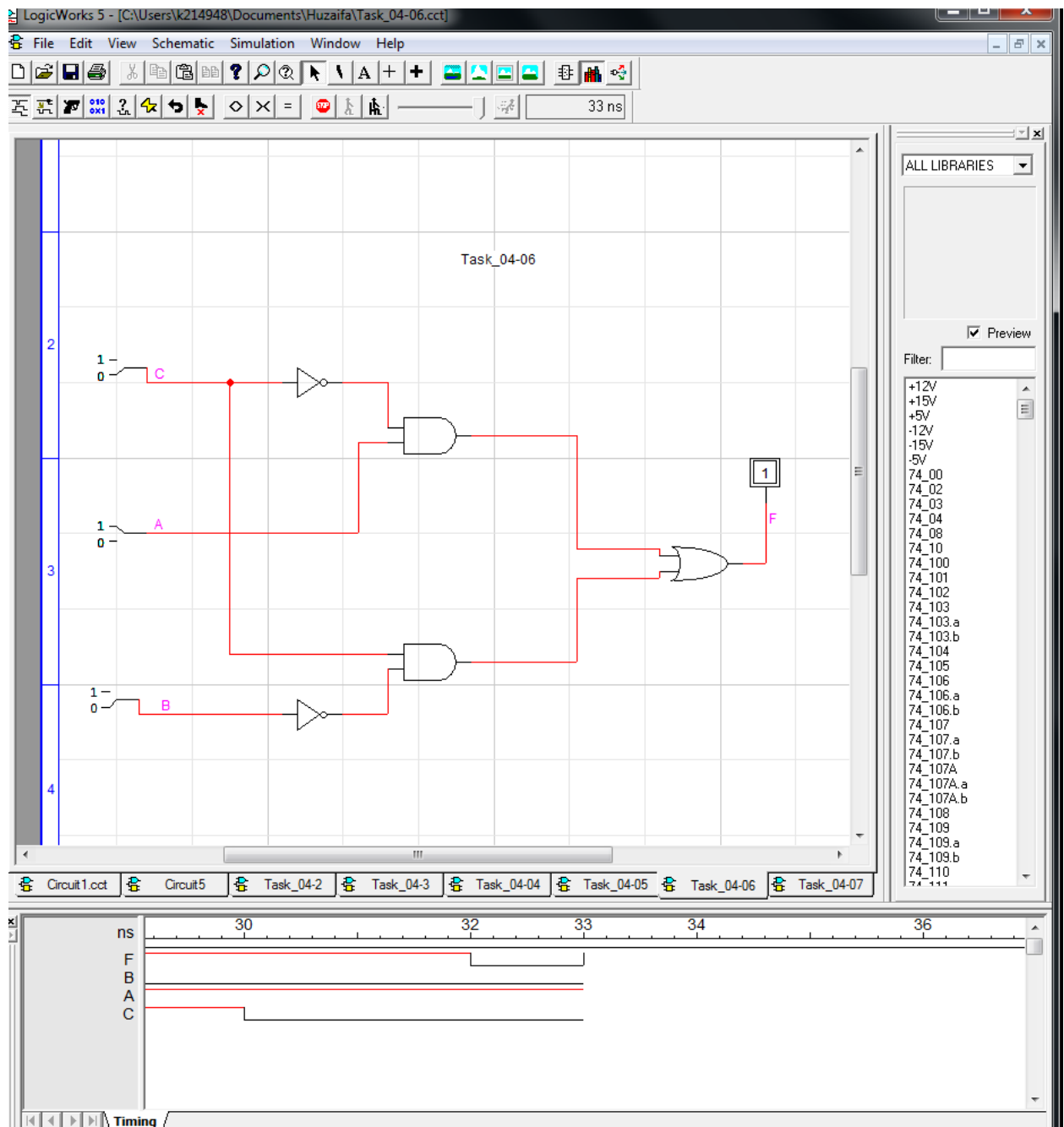
7. F + X' + Y'Z

Input(X)	Input(Y)	Input(Z)	Output(F)
0	0	0	1
0	0	1	1
0	1	0	1
0	1	1	1