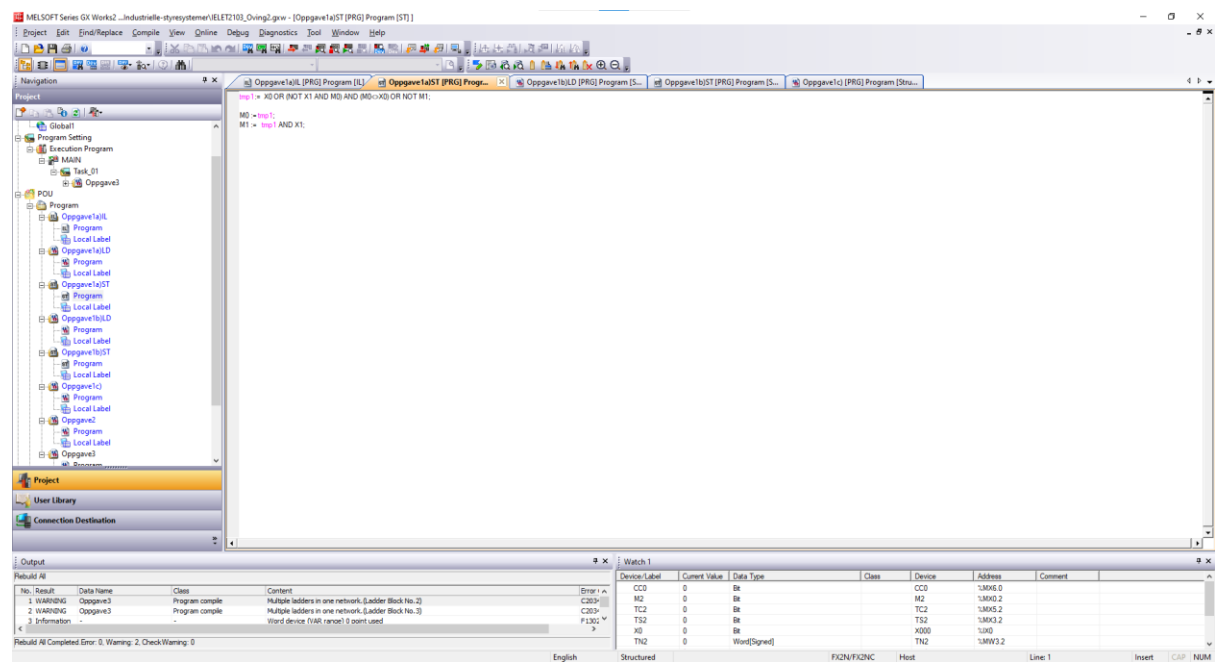
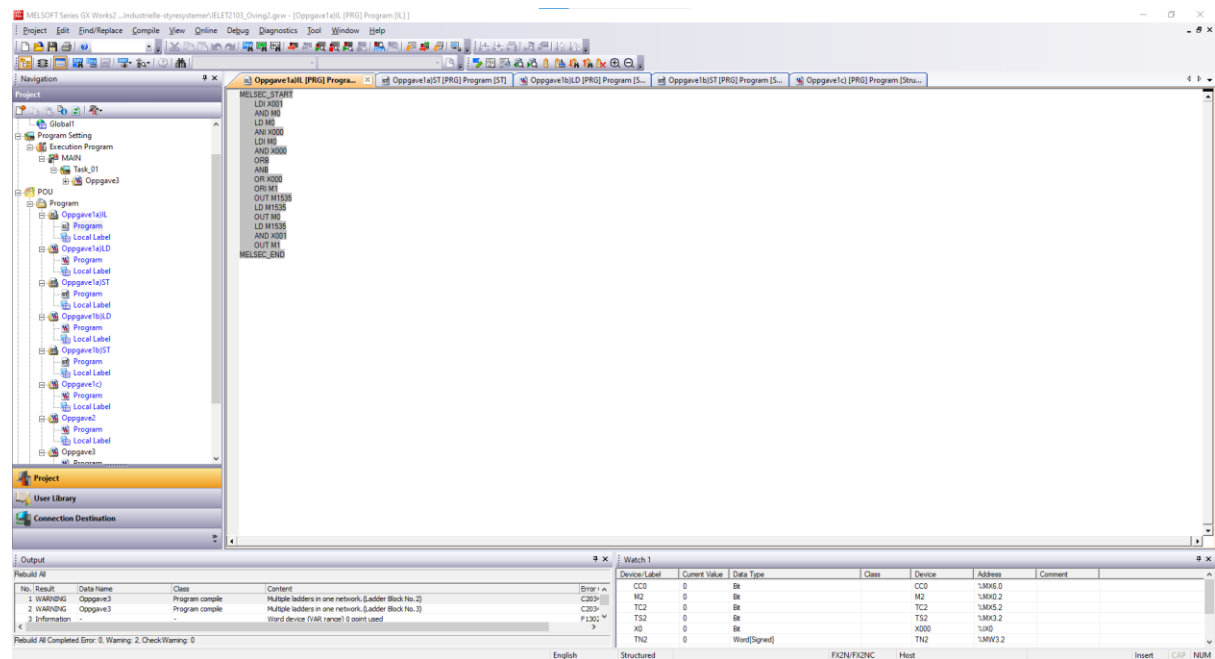


# IELET2103 Øving 2

## Oppgave 1a)



## Oppgave 1b)

Device Label	Current Value	Data Type	Class	Device	Address	Comment
CC0	0	Bit		CC0	1M00.0	
M2	0	Bit		M2	1M00.2	
TC2	0	Bit		TC2	1M00.2	
TS2	0	Bit		TS2	1M00.2	
X0	0	Bit		X000	1M00	
TN2	0	Word(Signed)		TN2	1MW3.2	

```
block 1 ← X1 AND NOT X0 OR X3;  
block 2 ← NOT X2 AND X4;  
block 3 ← (X1 OR X0) AND NOT X5 OR X3 AND X6;  
block 4 ← block 3 OR (X0 AND X1);  
Y0 ← block 4 AND NOT X4 AND X2;
```

## Oppgave 1c), d)

Oppgave 1d)  
I trinn 1 skal TSO gå høy, har TNO en vend på 2, mens CNO har en vend på 1. Når TSO går høy har TNO en vend på 2 mens CNO har en vend på 2.

Det tar 12 sek for Y0 å gå høy etter at X0 er høy.

No.	Result	Data Name	Class	Content	Device Label	Current Value	Data Type	Class	Device	Address	Comment
1	WARNING	Oppgave3	Program compile	Multiple ladders in one network (Ladder Block No.2)	CNO	0	Bit	CCO	1M06.0		
2	WARNING	Oppgave3	Program compile	Multiple ladders in one network (Ladder Block No.3)	CNO	0	Bit	M2	1M06.2		
3	Information			Word device (TMR reset) is point used	TNO	0	Bit	TNO	1M06.2		
					X0	0	Bit	X000	1M06		
					TNO	0	Word(Signed)	TNO	1M06.2		

Rebuild All Completed Error: 0, Warning: 2, Check Warning: 0

## Oppgave 2

The screenshot shows the MELSOFT GX Works2 software interface. The main window displays a ladder logic program for a PLC. The network consists of three inputs (X0, X1, X2) connected to a timer (T20), which is then connected to a timer (T20). The output Y0 is connected to a timer (T20). The bottom status bar shows "Warning: 2, Check Warning: 0".

**Output**

No.	Result	Data Name	Class	Content	Str	Device Label	Current Value	Data Type	Class	Device	Address	Comment
1	WARNING	Oppgave3	Program compile	Multiple ladders in one network (Ladder Block No. 2)	C203	CC0	0	Bit		CC0	1M06.0	
2	WARNING	Oppgave3	Program compile	Multiple ladders in one network (Ladder Block No. 3)	C203	TC2	0	Bit		TC2	1M06.2	
3	Information			Word device (16bit) cannot be point used		TS2	0	Bit		TS2	1M06.2	
						X0	0	Bit		X000	1M06	
						TN2	0	Word(Signed)		TN2	1M06.2	

Rebuild All Completed Error: 0, Warning: 2, Check Warning: 0

## Oppgave 3

MELSOFT Series GX Works2 - Industriell styresystem (ILET2101\_Oving2.gw - [Global Label Setting Global])

Project | Edit | Find/Replace | Compile | View | Online | Debug | Diagnostics | Tool | Window | Help

Navigation

Oppgave3 [PRG] Program [Struct] Global Label Setting Global1

No.	Class	Label Name	Data Type	Constant	Device	Address	Comment	Remark	Relation with
1	VAR GLOBAL	Hadstopper	Bit						
2	VAR GLOBAL	Drener_ime	Bit						
3	VAR GLOBAL	Drener_ime	Bit						
4	VAR GLOBAL	Giver_for_post_ope	Bit						
5	VAR GLOBAL	Giver_for_post_mede	Bit						
6	VAR GLOBAL	Kontaktor_for_spenning	Bit						
7	VAR GLOBAL	Kontaktor_for_redning	Bit						
8	VAR GLOBAL	Lampe	Bit						
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									

System label is reserved to be registered. System label is reserved to be released. The system label is already registered to the system label database.

To execute the Reservation to Register/Release for the system label, reflection to the system label database is required. Please execute Reflect to System Label Database. \* To execute Online Program Change, execute Online Program Change and save.

Reservation to Register System Label  
Reservation to Release System Label  
Import System Label  
New Reflected: 0  
Total: 0  
Reflect to System Label Database

Output

No.	Result	Data Name	Class	Content	Error
1	WARNING	Oppgave3	Program compile	Multiple ladders in one network (Ladder Block No.2)	C203
2	WARNING	Oppgave3	Program compile	Multiple ladders in one network (Ladder Block No.3)	C203
3	Information			Word device (X000) 0 point used	F130

Rebuild All Completed Error: 0; Warning: 2; Check Warning: 0

English Structured FX2N/FX2NC Host Line 1 Col. 1 CAP NDM

MELSOFT Series GX Works2 - Industriell styresystem (ILET2101\_Oving2.gw - [Oppgave3] [PRG] Program [Structured Ladder FBD])

Project | Edit | Find/Replace | Compile | View | Online | Debug | Diagnostics | Tool | Window | Help

Navigation

Oppgave3 [PRG] Program [Struct] Global Label Setting Global1

Hadstopper

Kontaktor\_for\_spenning

Kontaktor\_for\_redning

Drener\_ime

Giver\_for\_post\_ope

Giver\_for\_post\_mede

Kontaktor\_for\_spenning

Giver\_for\_post\_ope

Giver\_for\_post\_mede

Kontaktor\_for\_redning

Lampe

OUT 1 ENO

TC1

50

TC1 Value

TS1

Output

No.	Result	Data Name	Class	Content	Error
1	WARNING	Oppgave3	Program compile	Multiple ladders in one network (Ladder Block No.2)	C203
2	WARNING	Oppgave3	Program compile	Multiple ladders in one network (Ladder Block No.3)	C203
3	Information			Word device (X000) 0 point used	F130

Rebuild All Completed Error: 0; Warning: 2; Check Warning: 0

English Structured FX2N/FX2NC Host Line 1 Col. 1 CAP NDM