

LAB1

Pin13 → HIGH

Registers

Register	Value
R0	0x20000000
R1	0x20000004
R2	0x4001080C
R3	0x00002000
R4	0x20000020
R5	0x00000000
R6	0x00000000
R7	0x200027F0
R8	0x00000000
R9	0x00000000
R10	0x00000000
R11	0x00000000
R12	0x00000000
R13 (SP)	0x200027F0
R14 (LR)	0x000002B8
R15 (PC)	0x00000102
xPSR	0x41000000

Logic Analyzer

GPIOA

General Purpose I/O A (GPIOA)

Pin	CNF
PA.0	Floating Input
PA.1	Floating Input
PA.2	Floating Input
PA.3	Floating Input
PA.4	Floating Input
PA.5	Floating Input
PA.6	Floating Input
PA.7	Floating Input

Selected Port Pin Configuration

MODE: Input CNF: 1: Floating Input

Configuration & Mode Settings

GPIOA_CRH: 0x44244444 GPIOA_CRL: 0x44444444

GPIOA: GPIOA_IDR: 0x00002000 GPIOA_ODR: 0x00002000 GPIOA_LCKR: 0x00000000

Settings: Clock Enabled

```
49 GPIOA_CRH |= 0x0FFFFFFF; // get them 0 first before change it
50 GPIOA_CRH |= 0x00200000; // now we can set 2 safely
51
52 while(1)
53 {
54     GPIOA_ODR |= GPIOA_Pin13; // Set port a pin 13
55     R_ODR->pin_p_13 = 1;
56     for(int i = 0; i < 500; i++);
57
58     GPIOA_ODR |= ~(GPIOA_Pin13); // Clear port a pin 13
59     R_ODR->pin_p_13 = 0;
60     for(int i = 0; i < 500; i++);
61 }
62
63 return 0;
64
65
```

Command

*** error 34: undefined identifier

Pin13 → LOW

Registers

Register	Value
R0	0x20000000
R1	0x20000004
R2	0x4001080C
R3	0x00000000
R4	0x20000020
R5	0x00000000
R6	0x00000000
R7	0x200027F0
R8	0x00000000
R9	0x00000000
R10	0x00000000
R11	0x00000000
R12	0x00000000
R13 (SP)	0x200027F0
R14 (LR)	0x000002B8
R15 (PC)	0x00000102
xPSR	0x41000000

Logic Analyzer

GPIOA

General Purpose I/O A (GPIOA)

Pin	CNF
PA.0	Floating Input
PA.1	Floating Input
PA.2	Floating Input
PA.3	Floating Input
PA.4	Floating Input
PA.5	Floating Input
PA.6	Floating Input
PA.7	Floating Input

Selected Port Pin Configuration

MODE: Input CNF: 1: Floating Input

Configuration & Mode Settings

GPIOA_CRH: 0x44244444 GPIOA_CRL: 0x44444444

GPIOA: GPIOA_IDR: 0x00000000 GPIOA_ODR: 0x00000000 GPIOA_LCKR: 0x00000000

Settings: Clock Enabled

```
49 GPIOA_CRH |= 0x0FFFFFFF; // get them 0 first before change it
50 GPIOA_CRH |= 0x00200000; // now we can set 2 safely
51
52 while(1)
53 {
54     GPIOA_ODR |= GPIOA_Pin13; // Set port a pin 13
55     R_ODR->pin_p_13 = 1;
56     for(int i = 0; i < 500; i++);
57
58     GPIOA_ODR |= ~(GPIOA_Pin13); // Clear port a pin 13
59     R_ODR->pin_p_13 = 0;
60     for(int i = 0; i < 500; i++);
61 }
62
63 return 0;
64
65
```

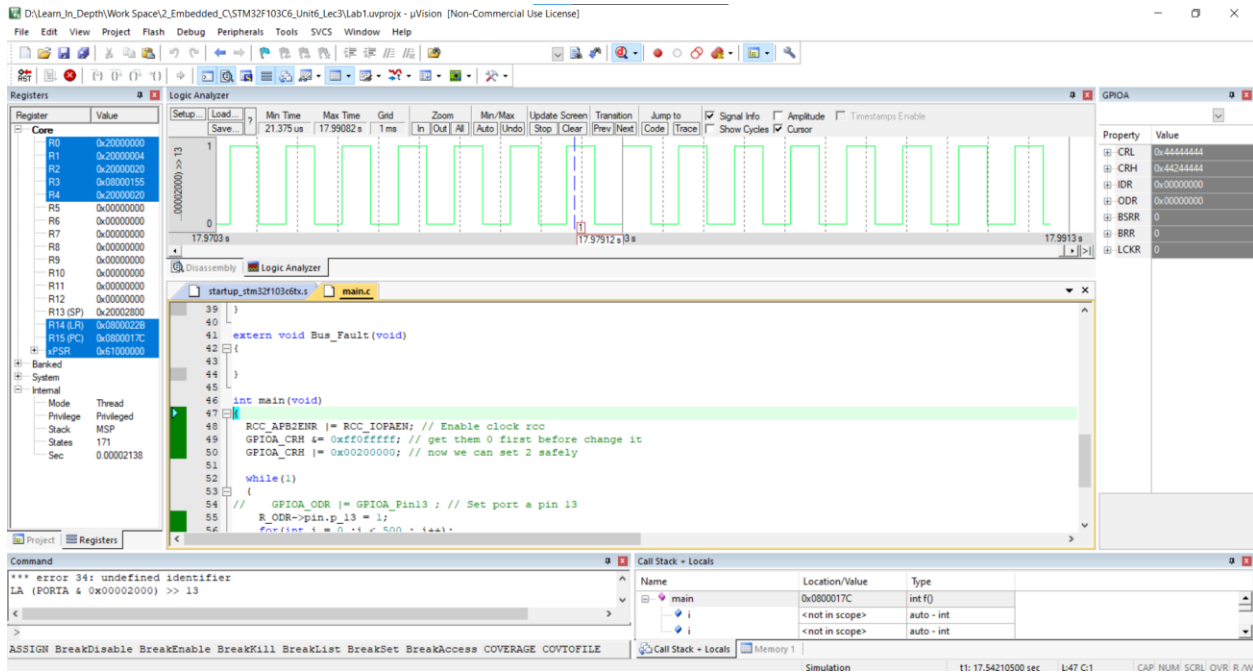
Command

*** error 34: undefined identifier

LA (PORTA & 0x00002000) >> 13

Name	Location/Value	Type
main	0x0800017C	int f()
i	<not in scope>	auto - int
i	<not in scope>	auto - int

Logic Analyzer :-



MCU Speed (Default : HIS)

