

# Lab 1 - DVA454 HT2024

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## 1. How do you terminate the debugging session?

Either press the red terminate button in the toolbar or press Ctrl+F2.

## 2. How do you terminate the program running on the dev board?

Since the board runs the program as soon as it receives power, the only way to terminate the program is to disconnect the board from its power supply.

## 3. Operations

### Bitwise operations

& bitwise and  
^ bitwise xor  
| bitwise or  
~ bitwise not  
<< bitwise left shift  
>> bitwise right shift

### Logical operations

&& logical and  
|| logical or

### Relational operators

== equal  
!= not equal  
< less than  
> greater than  
<= less or equal than  
>= greater or equal than

## Questions

a) What is the value of the 'result' variable at each occasion it is assigned a value?

Section	Value
and	1
and variant	3
or	3
xor	2
not	254
right shift	1
right shift again	8
left shift	2
left shift again	128
logical and	true
logical or	true

b) What happens at the end of the program.

The result variable has the value TRUE (1) and the execution enters an infinite loop and gets stuck there, which means the program never finishes its execution.