

# Programming – DT211/1

## Lab 14 – Thursday, February 7<sup>th</sup>, 2013

**Note:** You are expected to finish all programs in your own time if you do not get these done during the lab session. This is your own responsibility.

### Functions (part 1)

**Remember:** Use Symbollic names in your programs. Do not hard-code.

Write separate programs to:

1. Write a program that uses a function to print 10 stars (\*) on one line. Ensure you declare your function prototype and include comments.
2. Write a program that uses a function with 2 parameters (a character and an integer, e.g. `function_name(char, int)`). Your function must display the character parameter a certain number of times on one line where this number is the integer parameter (e.g. `function_name(*,5)` will display `*****` ).
3. Write a program that uses a function to find the highest and lowest number of 3 values. These 3 values must be passed as parameters to the function (i.e. `function_name(int, int, int)` ). Your function should find these values and display messages stating: The Highest value is : ... The Lowest value is: ...
4. Write a program that uses 2 functions called `sum()` and `average()`. Your program must read in 3 values inside the `main()`. Your `main()` should pass these 3 values as parameters to the function `sum()`. This function should calculate the sum of the 3 numbers. Your function `sum()` should then pass the sum of the 3 numbers as a parameter to the function `average()`. The function `average()` should then calculate the average of the 3 numbers and display this on the screen.

**Note:** Be careful where each function is called and how you pass your parameters between functions.