

# Programming – TU856/1 & TU858/1

## Lab 12 – Tuesday, February 2<sup>nd</sup>, 2021

**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 Symbolic 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 a single line. Ensure you declare your function prototype and include adequate 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. For example, if your function is *function\_name(\*,5)* it will display

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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 x

The Lowest value is y

4. Write a program that uses 2 functions called *sum()* and *average()*. Your program must ask the user to enter 3 numbers inside the main(). Your main() should then 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.