Programming – DT282/1 & DT228/1

Lab 12 – Tuesday, January 31st, 2017

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.