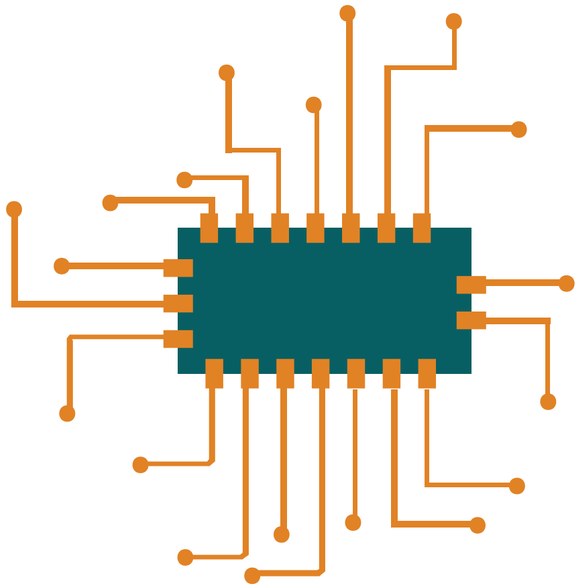
EMBEDDED SYSTEMS
TRACK-TASK 2

C language Arrays & Functions with Pointers



IMPORTANT NOTES:

The objective of this assignment is to start using the powerful features of the pointers that make it the most important concept in c and especially embedded systems so take your time understanding it.

NOTE !!! this is your last chance to Git and how to use it to push your task into the cloud, so make sure to have your time practicing as you won't it is a one-time skill.

ASSIGNMENT 1

Pointers Arithmetic:

- **Write a C code** that defines three pointers p1,p2,p3 of types int, char, and long long then perform the following: p1++, p2 ++ ,p3++ on them. Then print the reason for each output.

- **Write a C code** that defines a pointer “ptr” that points to an integer variable containing HEX value of 3 bytes then perform the following operations: *ptr++, *++ptr, ++*ptr and print the reason for each output.

ASSIGNMENT 2

Arrays & Function With Pointers:

- **Write a C function** to increment int value and create a pointer to this function then pass an int value to the function using the pointer only.
- **Create an array** of int values and a pointer pointing to this array then print all the elements of the array using this pointer.
- **Write a C program** that defines the difference between various C storage classes: { auto, extern, static, register} in terms of: Scope, initial value, and lifetime access, and then create a pdf and explain every concept of this problem in two lines only.

EVER TRIED EXPLAINING POINTERS TO A BEGINNER? IT'S LIKE TRYING TO DESCRIBE THE COLOR BLUE TO SOMEONE WHO'S ONLY EVER SEEN BLACK AND WHITE