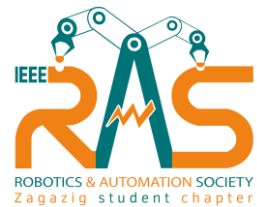


Embedded Systems Track

C Language Pointers, Storage Classes



Assignment 1

- **Pointers Arithmetic:**
 - Write a C code that defines a 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 C program that defines the difference between various C storage classes : { auto, extern, static, register} in terms of : Scope, initial value, and lifetime access.

Notes



- Any Discussion about tasks Must be only on the discussion channel so that everyone get the benefit and if you ever needed help about something else despite the tasks, I'm always open to hear your questions at any time 💖
- This your only chance to make sure you understand Git as the upcoming task will be a bit heavy and you won't have enough time for extra efforts.