

- A subroutine is a block of code that is called from different places from within a main program or other subroutines.
 - Saves code space in that the subroutine code does not have to be repeated in the program areas that need it; only the code for the subroutine call is repeated.
- A subroutine can have zero or more parameters that control its operation
- A subroutine may need to use local variables for computation.
- · A subroutine may pass a return value back to the caller.
- Space in data memory must be reserved for parameters, local variables, and the return value.

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1



























































What do you have to know?

- How subroutine call/return works
- How the stack on the PIC16 works
- How to pass parameters to a subroutine using a static allocation method
- How pointers work in PIC16 (INDF, FSR registers)
- How to access byte table data that is stored in program memory
- · PIC18 indirect addressing
- How parameter passing via stack works for PIC18

V 0.1

31