

# 5x5 Operating system

## Programmers Manual

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Functions

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## ***Comhand.c File***

//This method takes one parameter which needs to be implemented and it is  
//defined in enum struct.

**void setTerminalColor(enum Color color);**

//ask the user to put the time (hours, minutes, seconds) and then call setTime  
//method in time.c file using while loops to handle errors.

**void setTimeCommand();**

//get the time from getTime() method

**void getTimeCommand();**

//ask the user to put the date (month, day, year), and then call the method  
//setDate in time.c. It uses loops to go through each asking for time to handle  
//errors

**void setDateCommand();**

//calls getDate from time.c file

**void getDateCommand();**

//prints the version of the command with the date, the date comes //from the  
//compiler.

**void versionCommand();**

//uses the numbers from the menu to get the help that the user wants, or simply  
//typing all inside help to see help for all of the methods. Moreover, the user can  
//type the command name, then if he presses enter it will take him to the main  
//menu.

**void helpCommand();**

//turning the machine off, it confirms by sending a message to the user to click 1  
//if he is sure that he wants to shut down.

**void shutdownCommand();**

//shows the main menu, it gets the user input as a number and then compares it  
//to which method number and then calls the method.  
**void comhand();**

### ***Time.c File***

//takes one integer parameter and converts it to BCD and then returns it.  
**unsigned char decimalToBCD(int integer);**

//takes one integer parameter and converts it to decimal and then returns it.  
**int BCDtoDecimal(unsigned char bcd);**

//takes three parameters as inputs to register them in the system as the time.  
**void setTime(int hours, int minutes, int seconds);**

//get the time from registered time in the system and then convert it to local time,  
//and then print it.  
**void getTime();**

//set three parameters in the system as the date.  
**void setDate(int day, int month, int year);**

//get the current date from the system and convert it to decimal and then print it.  
**void getDate();**

### ***serial.c File***

//program the functionality of the keyboard. The symbols to type, special  
//characters like backspace, arrows, enter, delete having a buffer to store these  
//characters and index to follow each of these characters when deleted or added.  
**Int serial\_poll(device dev, const char \*buffer, size\_t len);**

### ***string.c File***

//convert integer to string  
**void itoa(char string[], int integer);**

