https://github.com/teaksoon/lmaewapm

The C-Language Keywords and Symbols

Keywords		Symbols				
MEMORY	CONTROL	CONTROL	LOGIC	MATH	BIT OP	
01.void	21.return	#	==	*	1	
02.char	22.if	< >	! =	%	&	
03.int	23.else	//	<	/	^	
04.short	24.switch	/* */	>	+	~	
05.long	25.case	()	<=	_	<<	
06.float	26.default	{ }	>=		>>	
07.double	27.while	;	& &			
08.signed	28.do	,				
09.unsigned	29.for	u				
10.struct	30.break	4	!			
11.union	31.continue	=				
12.enum	32.goto	[]				
13.const		:				
14.volatile		?				
15.auto						
16.extern		\				
17.static						
18.register		MEMORY				
19.typedef		&				
20.sizeof		*				

switch - case - default

The "switch/case" Keyword allows us to run instruction codes based on a SOURCE NUMBER and a MATCHING NUMBER (for selective execution)

```
"switch" Keyword used alone
Part1: "switch" Keyword
Part2: switch_number - Source Number, any whole numbers (no fractions)
Part3: switch_body
Part4: "case" Keyword
Part5: case_number - Matching Number, any whole numbers (no fractions)
Part6: "break" Keyword
Part7: "default" Keyword
Part8: "break" Keyword
```

```
Part1: "switch" Keyword
                                    Part2:switch number
                                    - placed within the bracket ( ) pair
                                          Part3:switch body
                                           - within a Curly Bracket { } pair
Part5:case_number -
                               switch(switch number)
- followed by colon :
Part4: "case" Keyword
                                  case case number:
- followed by space
                                                                One or
                                     instruction code;
                                                                many
Part6: "break" Keyword
                                    break;
- followed by semi-colon;
Part7: "default" Keyword
                                  default:
                                                                 One or
- followed by colon ;
                                     instruction code;
                                                                 many
Part8: "break" Keyword
                                    break;
- followed by semi-colon ;
```

```
ATMEGA328/ARDUINO - C_LANGUAGE - switch - case - default
https://github.com/teaksoon/lmaewapm
                   switch - case - default ( Step by Step )
STEP 1/4:
Make a skeleton switch-case-default structure
switch(0) {
  default:
  break;
STEP 2/4:
switch/switch number - a whole number(no fractions)
int switch_number; // a Variable with any whole number
switch(switch_number) { // switch_number = any whole number(no fractions)
 default:
  break;
STEP 3/4:
case/case number to match switch number
int switch_number; // a Variable with any whole number
switch (switch_number)
  case case_number: // case_number = any whole number to match switch_number
  instruction_code;
 break;
 default:
 break;
- we can have zero or many "case" structure within the "switch" body
- when the switch number and the case number matches, the instruction_code
after the case colon: symbol will start to run until it encounters "break;"
where it will exit the switch ( after the closing curly bracket } )
STEP 4/4:
default
int switch_number; // a Variable with any whole number
switch(switch_number) {
 case case_number: // case_number = any whole number to match switch_number
  instruction_code;
 break;
 default:
  instruction code;
  break;
- we can have only one "default" structure within the "switch" body
- when the switch_number does not match any case_number matches, the
instruction_code after the default colon : symbol will start to run until it
encounters "break;" where it will exit the switch ( after the closing curly
bracket } )
```

- "break;" will jump to the code after the body closing curly bracket } for

the following structures: switch , while , do and for

- break Keyword

```
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Arduino IDE|Save PROGRAM as: c_switch
Enter codes below and upload. Use the Serial Monitor to see results

void setup() {
    Serial.begin(9600); Serial.print("\n\nSerial Monitor(9600)...");

int menu_options;
    // menu_options Variable value will change via different methods
    // tactile buttons, keyboard, sensors, etc
    menu_options = 2; // dummy test value, change to test

Serial.print("\n\nBefore entering the switch-case-default");

switch(menu_options) {
    case 1:
```

Serial.print("\n\nPROGRAM continues here,");

Serial.print("\n\nPROGRAM continues here,");

Serial.print("\n\nUnknown Menu Option");

Serial.print("\n\nEnd of switch-case-default");

break; case 2:

break;
default:

break;

effects

Serial.print("\nmenu_options Variable matches case 1:");

Serial.print("\nmenu_options Variable matches case 2:");

void loop(){}

In this example, the menu_option have a value of 2; since the case 2:
matches this value, the codes in the case 2: will be executed until break;
where it exits the switch structure. It will then run the codes after the
closing switch body closing curly bracket }
Try change the menu_option value with different number to see different