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	,	α α				
09.unsigned	29.for	u	1 1				
10.struct	30.break		!				
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		*					

MATH OPERATIONS

These symbols allow us to do basic math with numbers

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```
C-Language Math Operation Symbols

* Multiply, a=b*c; a = result from b multiply c

* Modulus, a=b*c; a = remainder of a division, b divided by c

/ Divide, a=b/c; a = result from b divided by c

+ Plus, a=b+c; a = result from b plus c

- Minus, a=b-c; a = result from b minus c
```

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

```
void setup() {
    Serial.begin(9600); Serial.print("\n\nSerial Monitor(9600)...\n");
    Serial.print("\n\nMultiply *");
    Serial.print("\n4 * 2 = "); Serial.print(4*2);

    Serial.print("\n\nDivide /");
    Serial.print("\n4 / 2 = "); Serial.print(4/2);

    Serial.print("\n\nAdd +");
    Serial.print("\n\nMinus -");
    Serial.print("\n\nMinus -");
    Serial.print("\n\nModulus *");
    Serial.print("\n\nModulus *");
    Serial.print("\n 8 * 5 = "); Serial.print(8*5);
    Serial.print("\n 1 * 5 = "); Serial.print(1*5);
    Serial.print("\n15 * 5 = "); Serial.print(15*5);
}

void loop(){}
```

```
We can also do shortcut coding when using math operation symbols

a = a+b; can also be coded as a += b; // this can also work for other operations
```

```
Increase and Decrease number by 1

b++; // use original value, then increase by 1 after operation is completed
b--; // use original value, then increase by 1 after operation is completed
++b; // increase by 1 before operation starts
--b; // decrease by 1 before operation starts

b=4, c=7;
a = b++ +++c; // results = 4+8 = 12;
```

```
We can use the bracket () pair symbol to enforce math operation precedence

a = 2; b=4, c=7;

a = (b+(c-a))*a;

Step 1. This will start with most inner bracket pair "()" c-a
Step 2. result of Step 1. plus b
Step 3. result of Step 2. multiply a
Step 4. result of Step 3. assigned to a
```