OP	Decimal	Nibble 1	Nibble 2	Type	Usage	Description
SYME	OLS:	1111				
SEP	-1	1111	1111	Symbol	Seperator	Expression Block Seperator
FUNC	-2	1111	1110	Symbol	Function Block	Function Block Seperator, used while defining functions
ADD	-3	1111	1101	Symbol	Add	
SUB	-4	1111	1100	Symbol	Subtract	
MUL	-5	1111	1011	Symbol	Multiply	
DIV	-6	1111	1010	Symbol	Divide	
AND	-7	1111	1001	Symbol	And	For Joining Conditionals
OR	-8	1111	1000	Symbol	Or	For Joining Conditionals
0.0	D	NIII I I	NULL C	-		D
OP	Decimal	Nibble 1	Nibble 2	Type	Usage	<b>Description</b> Used in this manner: [Cx][Register or
CONDITI	ONALS:	1111				number 1][Register or number 2][code to execute][SEP] If the comparison evaluates to false, then the rest of the expression block is skipped.
CG	-11	1111	0101	Conditional	Greater	
CL	-12	1111	0100	Conditional	Less	
CE	-13	1111	0011	Conditional	Equal	
CNE	-14	1111	0010	Conditional	Not Equal	
CGE	-15	1111	0001	Conditional	Greater or Equal	
CLE	-16	1111	0000	Conditional	Less or Equal	
				_		
OP	Decimal	Nibble 1	Nibble 2	Type	Usage	Description
	TERS:	1000	0004			
R1	-127	1000	0001	Register	Number Storage	
R2	-126	1000	0010	Register	Number Storage	
R3	-125	1000	0011	Register	Number Storage	
R4	-124	1000	0100	Register	Number Storage	
R5	-123	1000	0101	Register	Number Storage	
R6	-122	1000	0110	Register	Number Storage	
R7	-121	1000	0111	Register	Number Storage	
R8	-120	1000	1000	Register	Number Storage	
ОР	Decimal	Nibble 1	Nibble 2	Type	Usage	Description
EEPROM:		1000			0	For writing to or reading from last 3 bytes in eeprom.

E1S	-119		1001	04	F4.0	
E2S	-118		1010	Storage	E1 Save	
E3S	-117		1010	Storage	E2 Save	
	-11 <i>7</i> -116			Storage	E3 Save	
E1R			1100	Storage	E1 Read	
E2R	-115		1101	Storage	E2 Read	
E3R	-114		1110	Storage	E3 Read	
OP	Decimal	Nibble 1	Nibble 2	Type	Usage	Description
FUNC	ΓΙΟΝS:	1100		<b>7</b> 1		A function name followed by a function block: [Fx][#][#] sets a function. The function name by itself calls that function.
F1	-63	1100	0001	Function		
F2	-62	1100	0010	Function		
F3	-61	1100	0011	Function		
F4	-60	1100	0100	Function		
F5	-59	1100	0101	Function		
F6	-58	1100	0110	Function		
F7	-57	1100	0111	Function		
F8	-56	1100	1000	Function		
				_		
OP	Decimal	Nibble 1	Nibble 2	Type	Usage	Description
	EP:	1001			Delay Program	
S1	-111	1001	0001	Builtin	sleep 1 second	
S2	-110	1001	0010	Builtin	sleep 2 second	
S3	-109	1001	0011	Builtin	sleep 3 second	
S4	-108	1001	0100	Builtin	sleep 4 second	
				D '11'	sleep 5 second	
S5	-107	1001	0101	Builtin	sieep 5 second	
S5 S6	-107 -106	1001 1001	0101 0110	Builtin	sleep 6 second	
S6	-106	1001	0110	Builtin	sleep 6 second	

OP	Decimal	Nibble 1	Nibble 2	Type	Usage	Description
DEEP S	SLEEP:	1011			Save Power	Arduino Power Down Mode
D0	-80	1011	0000	Builtin	infinite deepsleep/wake with RUN button	Sleeps indefinitively until RUN button is pressed.
D1	-79	1011	0001	Builtin	1 minute deepsleep	
D2	-78	1011	0010	Builtin	2 minutedeepsleep	
D3	-77	1011	0011	Builtin	3 minutedeepsleep	
D4	-76	1011	0100	Builtin	4 minutedeepsleep	
D5	-75	1011	0101	Builtin	5 minute deepsleep	
D6	-74	1011	0110	Builtin	6 minute deepsleep	
D7	-73	1011	0111	Builtin	7 minute deepsleep	
D8	-72	1011	1000	Builtin	8 minute deepsleep	
OP	Decimal	Nibble 1	Nibble 2	Type	Usage	Description
LO	OP:	1010				
LP	-96	1010	0000	Builtin	Loop Function	When called from within a function or expression, it starts function code from beginning of function or expression.
LR1						
LKI	-95	1010	0001	Builtin	Loop Register	Loops code block between seperators number of times stored in selected register.
LR1	-95 -94	1010 1010	0001 0010	Builtin	Loop Register	number of times stored in selected
				Builtin	Loop Register	number of times stored in selected
LR2	-94	1010	0010	Builtin	Loop Register	number of times stored in selected
LR2 LR3	-94 -93	1010 1010	0010 0011	Builtin	Loop Register	number of times stored in selected
LR2 LR3 LR4	-94 -93 -92	1010 1010 1010	0010 0011 0100	Builtin	Loop Register	number of times stored in selected
LR2 LR3 LR4 LR5	-94 -93 -92 -91	1010 1010 1010 1010	0010 0011 0100 0101	Builtin	Loop Register	number of times stored in selected
LR2 LR3 LR4 LR5 LR6	-94 -93 -92 -91 -90	1010 1010 1010 1010 1010	0010 0011 0100 0101 0110	Builtin	Loop Register	number of times stored in selected

OP	Decimal	Nibble 1	Nibble 2	Type	Usage	Description
PIN:		1110		Builtin	Control Pin	The Pin Bits are arranged in a way that makes it easy to visualize what the pin is set to. PB2 is accessable on the header on top of device. This will be the only pin we are controlling with the Pin Functions.
PDOH	-25	1110	0111	Builtin	Digital, Out, High	
PDOL	-26	1110	0110	Builtin	Digital, Out, Low	
PDIU	-27	1110	0101	Builtin	Digital, In, Pullup	
PDID	-28	1110	0100	Builtin	Digital, In, No Pullup	
PAIX	-29	1110	0011	Builtin	Analog In	
PAXX	-30	1110	0010	Builtin	Read ADC2	The device has a built in resistor divider, to get voltage: (analog reading)*5.5/1024
OP	Decimal	Nibble 1	Nibble 2	Type	Usage	Description
LE	D:	1101		71		For controlling built in LED on PB1 and PB0
LOL	-48	1101	0000	Builtin	Led 0, High	
LOH	-47	1101	0001	Builtin	Led 0, Low	
L1L	-46	1101	0010	Builtin	Led 1, High	
L1H	-45	1101	0011	Builtin	Led 1, Low	
OP	Decimal	Nibble 1	Nibble 2	Type	Usage	Description
BUTTONS:		1101				For getting button pressed ID. We exclude Button 1, as that is the STOP button when program is running. These registers are also builtin functions. Calling one of these will check for that button press.
BS	-44	1101	0100	Builtin	Wait til button 2 press	
BT	-43	1101	0101	Builtin	Wait til button 3 press	
BR	-42	1101	0110	Builtin	Wait til button 4 press	
BL	-41	1101	0111	Builtin	Wait til button 5 press	
OP	Decimal	Nibble 1	Nibble 2	Type	Usage	Description
	unctions	1101	MIDDIC Z	i ype	- Jaye	Dogoripuon
BB	-40	1101	1111	Builtin	Blinks next byte	BB R1