

Memory Address	Memory Contents	Instruction Mnemonics	Comment
2080	05	0000 0101	LOCATION OF AUGEND
2081	FB	1111 1011	LOCATION OF ADDEND
2082	00		LOCATION OF SUM
.	.		
.	.		
.	.		
3007	B6	BEGIN: LDAA AUGEND	PUT AUGEND IN A
3008	20		
3009	80		
300A	BB	ADDA ADDEND	ADD THE ADDEND
300B	20		
300C	81		
300D	7A	STAA SUM	STORE THE RESULT
300E	20		
300F	82		
3010	20	HERE: BRA HERE	ENDLESS LOOP HERE
3011	FE		

start of program
 Load to register A

numbers to add

add to register A

Store A to memory

move PC to 3010

A	00	B
D		
X		
Y		
SP		
PC	3010	

1111 1011
 0000 0101

 1000 0000

C carry
 V overflow
 Z Zero
 N negative

S	X	H	I	N	Z	V	C
CCR	0	0	0	0	0	1	0

1. fetch
2. decode
3. execute

