

Assembly Language Code

start LDA zero  
STA sum  
STA index  
INP  
BRZ end  
STA value  
loop LDA sum  
ADD value  
STA sum  
LDA index  
ADD count  
STA index  
SUB value  
BRZ endLoop  
BRA loop  
endLoop LDA sum  
OUT  
BRA start  
end HLT

sum DAT  
index DAT  
count DAT 1  
value DAT  
zero DAT

0 LDA 23  
1 STA 19  
2 STA 20  
3 INP  
4 BRZ 18  
5 STA 27  
6 LDA 19  
7 ADD 22  
8 STA 19  
9 LDA 20  
10 ADD 21  
11 STA 20  
12 SUB 22  
13 BRZ 15  
14 BRA 6  
15 LDA 19  
16 OUT  
17 BRA 0  
18 HLT

19 DAT 0  
20 DAT 0  
21 DAT 1  
22 DAT 0  
23 DAT 0

Assembly language program

Data

OUTPUT

64

CPU

PROGRAM COUNTER  
0

INSTRUCTION REGISTER  
5

ADDRESS REGISTER  
23

ACCUMULATOR  
0

INPUT

8

1 2 3  
4 5 6  
7 8 9 C  
- 0 Enter

RAM

0	1	2	3	4	5	6	7	8	9
523	319	320	901	718	322	519	122	319	520
10	11	12	13	14	15	16	17	18	19
121	320	222	715	606	519	902	600	0	0
20	21	22	23	24	25	26	27	28	29
0	1	0	0	0	0	0	0	0	0
30	31	32	33	34	35	36	37	38	39
0	0	0	0	0	0	0	0	0	0
40	41	42	43	44	45	46	47	48	49
0	0	0	0	0	0	0	0	0	0
50	51	52	53	54	55	56	57	58	59
0	0	0	0	0	0	0	0	0	0
60	61	62	63	64	65	66	67	68	69
0	0	0	0	0	0	0	0	0	0
70	71	72	73	74	75	76	77	78	79
0	0	0	0	0	0	0	0	0	0
80	81	82	83	84	85	86	87	88	89
0	0	0	0	0	0	0	0	0	0
90	91	92	93	94	95	96	97	98	99
0	0	0	0	0	0	0	0	0	0

Program counter

Data

Assembled program

Memory addresses 50 - 59

The current instruction explained

5=LOAD into accumulator the contents of RAM address 23

ASSEMBLE CODE INTO RAM RUN STEP

RESET LOAD SAVE

# Ocr A452 Lmc Example

**Alan Milosevic, Dorothy Williams**

### **Ocr A452 Lmc Example:**

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**OCR AS and A Level Computer Science** P. M. Heathcote,R. S. U. Heathcote,2016

**Tackling A Level Projects in Computer Science OCR H446** Ceredig Cattnach-Chell,2019-11-18 Tackling A Level projects in Computer Science for OCR H446 is the essential student guide for completing the project and in particular the report with confidence and independence It contains clear and concise instruction and examples of what needs to be included This book covers it all

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