

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

ASSEMBLE CODE INTO RAM RUN STEP

RESET LOAD SAVE

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
-	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

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

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