ASSEMBLY\_LANGUAGE\_PROGRAM

ORG 0

LDA A

ADD B

STA C

HLT

A, DEC 83

B, DEC -23

C, DEC 0

END

PROGRAM WITH SYMBOLIC OP\_CODE

Location Instruction

000 LDA 004

001 ADD 005

002 STA 006

003 HLT

004 0053

005 FFE9

006 0000

HEXA PROGRAM

Location instruction

000 2004

001 1005

002 3006

003 7001

004 0053

005 FFE9

006 0000

BINARY PROGRAM

Location instruction code

0 0010 0000 0000 0100

1 0001 0000 0000 0101

10 0011 0000 0000 0001

11 0111 0000 0000 0001

100 0000 0000 0101 0011

101 1111 1111 1110 1001

110 0000 0000 0000 0000

Symbol Hexadecimal code

I=0 I=1

AND 0xxx 8xxx

ADD 1xxx 9xxx

LOA 2xxx Axxx

STA 3xxx Bxxx

BUN 4xxx Cxxx

BSA 5xxx Dxxx

ISZ 6xxx Exxx

CLA 7800

CLE 7400

CMA 7200

CME 7100

CIR 7080

CIL 7040

INC 7020

SPA 7010

SNA 7008

SZA 7004

SZE 7002

HLT 7001

INP F800

OUT F400

SKI F200

SKO FIOO

ION F080

IOF F040