Els Sobylah 30-1/01-2014 A003 14177 Disital Losoz : Asn > Problem Set: Chapter 7: 1-6, 9-11 D((XTY)-Z) 33 what Phos program does, the data for xyyz 15 4,7,2 respectiver: (4+7)-2) (11-2) 9 B Re output from Pros program 2) w+(x-y)-z symbol puble wheres w=3 tolde lubel 13 145 X=-1 W: Y=8 2=-113 Assembly Language Lubel INSA Machine code Loc Hex BM Lda X 00 COOD 1701 1101 Sub y 1 2E 0010 1110 Add W 2 10 000 1100 3 2F Sub 2 0010 1111 EO 1110 0000 Ont HIL FO 1111 0000 dat 3 03 6000 0011 dat -13 OF 0000 1111 X dat 8 08 0000 1000 dat -113 (2000 6000 111

Fruit output 3 107,0

3) ? 4) Vortual Space 16 x larger 216 = 65,536 54 ace Prata a physocal address Current | Next Muchan State ## PC Instr PC tac Out Hex Money for 16 lac 0 6 - - OE 1F BBE ED 1 O Lda 1 1 1 2 1 Add 2 2 2 3 2 ? 3 3 3 4 3 Add 4 4 4 0101 X=75 6) X:= 2·x-y X230 Ldax: 75 7-45 546 Y:30 Staz: V 4dd 2 to 2 = 90 MB grossan Should compute Our Machone does not have a multoolientoon function, so to get 2* X ve have to oust add X to stell also we have defended X proce which may cause Be unchane to not work.

Sym6601 label loc X 14 Y 15 Nest Madhone State PC Acc Out Hep Memory

D - OE IE 2F 3E R MXX MXX MXXXXXXXXXXXX 48 IE O Lda 75 3 2 546 3 120 -4 3 Sta 4 120 -5 4 Out 5 120 120 6 5 HH 6 120 120 Same 15 78 120 - OF 1E 2F 3E EO FO 5 120 120 Sume Sume 120 120 6 10) Symbol table luttel loc X dat 45 157 Y dats 15 1. Lda x : 55 Sub X 0-4 Sta X Sub x Sta X 5,6 X Ont 6nt +17

16bel Symbol. 10c Intel X lates 11) Memory Hex PC Inst Out # # OPEO 3P 3E 80 OF EO 2F3E OF EO Lda 10 10 0 10 10 Ont 345 10 Sh 10 Lda 5 5 Out 5 5 Sta 5 Lla 7 tube! Symbol loc latel X dat 10 11) 15 y dat 5 Her Memory PC tee Out # 北 DE EO 2F 3E OF EO 2F 3E OF EO O4 O5 Same Lda 10 0 Same JUS 1000 10 10 23466789 out-Same 5 Salo 05 00 OFFORF SE OF FO 2F 3F OF FO San 0 Same Lda Same but Same O Sub (E EO 2F SE DE EO 2F SE DE EO 0 Sta Same 0 Lda Same a 0 10 9 ont