Programming Assignment #2

DALTON TARDE 824357515

Q1 – Assign the location in the memory, find the object code for the instructions then create the

object program		
Loc		Obi.Code
MUZ 000P	START	4000
4000 FIRST	LDX	ZERO OYYOIB
500Y	LDA	ZERO OYYOIB
4006 LOOP	ADD	TABLE, X 18C015
POOP	TIX	COUNT SCHOIS
700C	JLT	LOOP 384006
400F	STA	TOTAL OCYOIE
4012	RSUB	40000
YOK TABLE	RESW	2000
AOM COUNT	RESW	1
YOUR ZERO	WORD	0 000000
LATOT 310P	RESW	1
4021	END	FIRST

 ${\bf Q2}$ – Assign the location in the memory, find the object code for the instructions then create the object program

Loc			Obis. Code
	SUM	START	0
0000	FIRST	LDX	#0 050000
0003		LDA	#0 010000
0006		+LDB	#TABLE2 69/790
		BASE	TABLE2
4000	LOOP	ADD	TABLE, X IRAOI3
0000		ADD	TAGLE2, X 1BCOOO
0010		TIX	COUNT ZF200A
0013		JLT	LOOP 3BSFF4
001e		+STA	007501 70 JATOT
4100		RSUB	0007P
00ID	COUNT	RESW	1
0020	TABLE	RESW	2000
1790	TABLE2	RESW	2000
2F00	TOTAL	RESW	1
250	3	END	FIRST

16. Suppose LENGTH is defined as in the program of Fig. 2.9. What would be the difference between the following sequences of state-

a. LDA LENGTH SUB #1
b. LDA LENGTH-1

O. LDA LENGTH initializes index value to length SUB #1 Will Subtract | From the length

b. LDA LENGTH will initialize the index value with length -1

- 17. Referring to the definitions of symbols in Fig. 2.10, give the value, type, and intuitive meaning (if any) of each of the following expressions:
 - a. BUFFER-FIRST decreases by the value by you in Fins
 - b. BUFFER+4095 address + 4005
 - c. MAXLEN-1 I terales by a factor of 1
 - d. BUFFER+MAXLEN-1 MURLOGE WHELL BY MUMPERNI
 - e. BUFFER-MAXLEN DECREASE DYFEET BY MUXIM
 - f. 2*LENGTH doubles length
 - B. 2*MAXLEN-1 double max value OF length 1 ⊂ Arevents cool)
 - h. MAXLEN-BUFFER VOINE + YPE: CHOSOINE
 - i. FIRST+BUFFER OPPENDS FIRST TO WERE
 - j. FIRST-BUFFER+BUFEND appends First-buffer to largery
- In the program of Fig. 2.9, what is the advantage of writing (on line 107)

MAXLEN EQU BUFEND-BUFFER

instead of

MAXLEN EOU

4096 ?

the answer line Stace address allocation than Waxnen mill have wore efficent

19. In the program of Fig. 2.15, could we change line 190 to

MAXLEN EQU BUFEND-BUFFER

and line 133 to

+LDT #MAXLEN

as we did in Fig. 2.9?

No, both these changes would not be possible due to address issues that would result from BUFFEND-BUFFER and #MAXLEN.