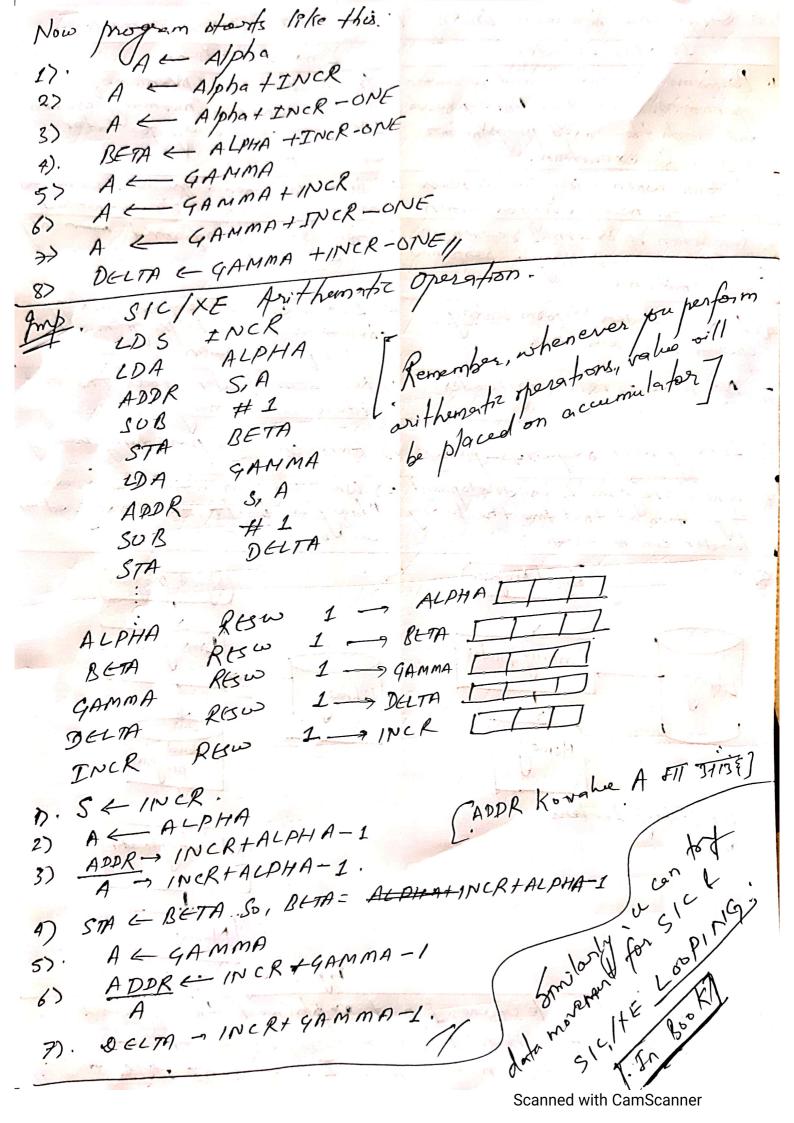
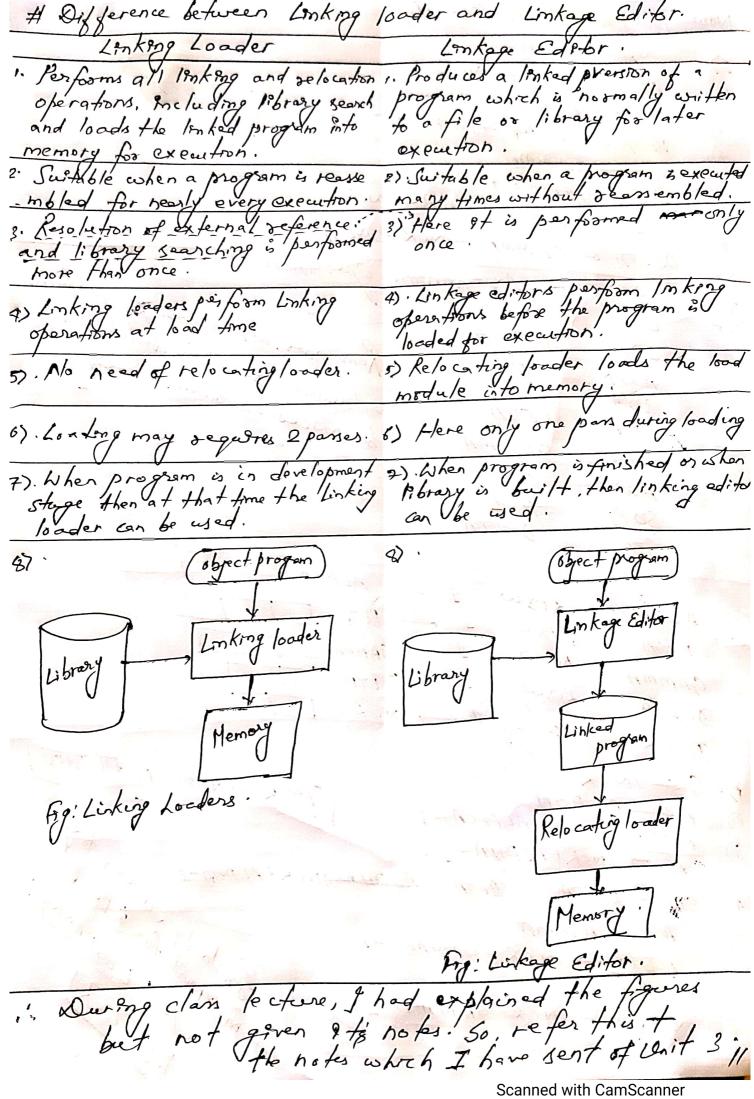
Few more important topics related to pur questions.
Q. Write a SIC/XE Program for arithematic operations.
Few more important topics related to por questions. Q. Write a SIC/XE Program for arithematic operations. OR write SIC Program for arithematic operations.
[Notes: Only for understanding > we studied a hypothetical computer in system programming].
[Notes: Only 708 wisem Programming 7.
we also came through few assembler directores for eg!
Luc a/so came through &
5/4/175/2017/
END - End of the program NORD - [] we know 3 consecutive by te NORD - [] going to store something 8 of. from a word - going to store something 8 of.
WORD - [] going to store something in it.
form a word of mt a = 5;
RESW- Josephan memory but nothing is stored at that instance, reserved
I stored at that instance, reserved
to tuture
BYTE- Similar to words it will have some data.
RESBOL Josimilar to words" RESBOL Josimilar to words" RESBOL Josimilar to words RESBOL Josimilar to words RESBOL Josimilar to words RESBOL Joseph Memory reserved.
1 reserve w, mem of
KR(3)
RESB- [> similar to Data Movement.
Now consider the following program. Data Movement
Now consider the following program. Data Movement
Now consider the following program. Data Movement. LDA FIVE There are our in structions.
Now consider the following program. Data Movement. LDA FIVE There are our in structions.
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Now consider the following program. Data Movement. LDA FIVE There are our in structions.
Now consider the following program. Data Movement LDA FIVE STA ALPHA There are our instructions. LDCH CHARZ STCH C1 ALPHA RESWITT - Joing to reserve one word for ALPHA. ALPHA RESWITT - Joing to store 5 FIVE WORD 5
Now consider the following program. Data Movement LDA FIVE STA ALPHA There are our instructions. LDCH CHARZ STCH C1 ALPHA RESWITT - Joing to reserve one word for ALPHA. ALPHA RESWITT - Joing to store 5 FIVE WORD 5
Alow consider the following program. Data Movement. LDA FIVE JOSTA ALPHA There are our instructions. LDCH CHARZ JOSTCH C1 ALPHA RESWIT— Joing to reserve one word for ALPHA. ALPHA RESWIT— Joing to store 5 PIVE WORD 5
Alow consider the following program. Data Movement LDA FIVE STA ALPHA There are our instructions. LDCH CHARZ ALPHA RESWI going to reserve one word for ALPHA. ALPHA RESWI going to store 5 FIVE WORD 5 going to store 5 CHARZ BYTE C'Z' Data part / Declaration part. CHARZ BYTE C'Z' Data part / Declaration part. C1 RESBI C1 RESBI C1 RESBI ALPHA RESWI ALPHA O O 5 S6, first Inne, ALPHA RESWI ALPHA O O 5
Now consider the following program. Data Movement LDA FIVE JOSTA ALPHA There are our in spring to Libractions. LDCH CHARZ JOSTCH C1 ALPHA RESWIT— Joseph for Store 5 FIVE WORD 5
Now consider the following program. Data Movement LDA FIVE JOSTA ALPHA There are our in spring to Libractions. LDCH CHARZ JOSTCH C1 ALPHA RESWIT— Joseph for Store 5 FIVE WORD 5
Now consider the following program. Data Movement LDA FIVE JOH CHARZ JOHN CHARZ JOHN CHARZ JOHN CHARZ JOHN CHARZ JOHN RESWI Joing to reserve one word for ALPHA. ALPHA RESWI Joing to store 5 ALPHA RESWI Joing to store 5 ALPHA RESWI - ALPHA Perwi - ALPHA OTO 5 So, first Inne, ALPHA RESWI - ALPHA OTO 5 Now, look first 2 lines of instructions: FIVE OS Load into A., Value of FIVE. Store into A., ALPHA. So- Alphabets are stored in form of 8-65/ ACCISION.
Now consider the following program. Data Hovement LDA FIVE JOSTA ALPHA There are our in spring to Libractions. LDCH CHARZ JOSTCH C1 ALPHA RESWIT— Josing to Leverre one word for ALPHA. ALPHA RESWIT— Josing to Store 5 FIVE WORD 5— Josing to Store 5 FIVE WORD 5— JOSING PORT / Declaration pant. CHARZ BYTE C'Z' / Data purt / Declaration pant. C1 RESBI C1 RESBI So, first / Pine, ALPHA RESWI > ALPHA O O 5 Now, look first 2 lines of my forctions: Now, look first 2 lines of My forctions: Now, look first 2 lines of FIVE.

When you are loading a number, we use LDA. " Character, " LDCH.
SO, LDCH CHARZ - load to recumulator character CHARZ. STCH 1 - Store to the accumulator.
50, C. [mai 2000].
Onta Movement for SIC/IE.
Onta Movement for SIC/XE. The LDA #5 The off #5-n immediate value, so STA ALPHA four instructions load directly LDA #90 - 100 100 100 100 ISTEH C1. 0 0 90
1 LDA #90 - 10 10 10 10 10 10 10 10 10 10 10 10 10
STEH CI. I o o 90
C1 RESB 1 To only 2 dechrations.
* ALPHA [0] 0 15] = reseme word
reserve by te.
Remember, when we are storing value to the accumulator, we donot store of into directly. (arthematic value)
1-DA 8-pres LOCH 8-pres
Number character.
Number character. While converting LDA #90 and Etoring the character, who have to knowent it to character. Aperation:
while converted for character.
SIC- Arithematic Operation: SIC- Arithematic Operation: Multiplication / Division/
SIC- Arithematic Operation. SIC- Arithematic Operation. Multiplication / Division/
LIM ALPHA RESW 1-ALPHA
COR ONE BETTA RESW 1 +186TA
STA BETA GAMMA NOS
LDA TINCK TINCK KISW 2 - INCR TI
ADD ONE ONE
STA DELTA & All Alpha, Beta, yamme, the memory of Reserve word as shown here.
* Le have Reserve 5 words in the memory p. T. Of





Refor Notes: For Automatic Lebrary Search To These are
Loader Options. Machine independent
Thave explained in class, now make shoot no buby yourself. Loader Restures. Loader Dogran Options () Lonking Loaders .7 @ Linkage Editors de 3) Dynamic Lonking. By spamic Lanking: It allows several executing programs to share one copy of a subroutine or library. It provides the ability to load the toutines only when It provides the ability to load the toutines only when (and if) they are needed. The subroutine is loaded and linked to the rest of the program when it is first called a usually called dynamic linking. Réfer to page No:[18/3, 164, 165] on your bocks library | sembender lettere from class lettere Have Jour Osar broken about Dynamic to remember of Suppose Requeres a function 3 Akldynamic loader (o.s) 3 0.5 searches in Library is provides the function [ERRHANDL] (4) [wanpigned on ce completed of operation.

The program, seturns the control

TO 0.5. Now program down to get the single of the si firetion ERRHANDL.