ASSIGNMENT – II

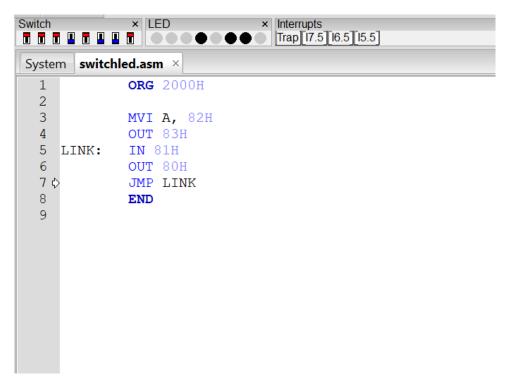
NAME: SOUMYADIP GHOSH

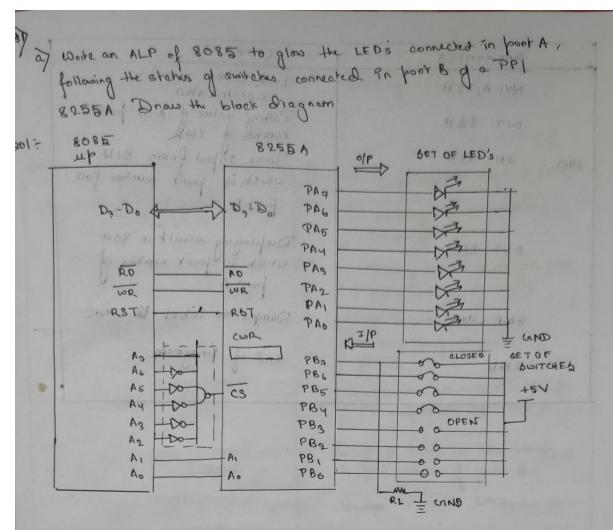
STREAM: CSE-A

ROLL NUMBER: 1951007

SUBJECT: MICROPROCESSORS LAB

Problem 1a: Write an ALP of 8085 to glow the LEDs connected in Port A, following the status of Switches connected in Port B of a PPI 8255a. Draw the block diagram.





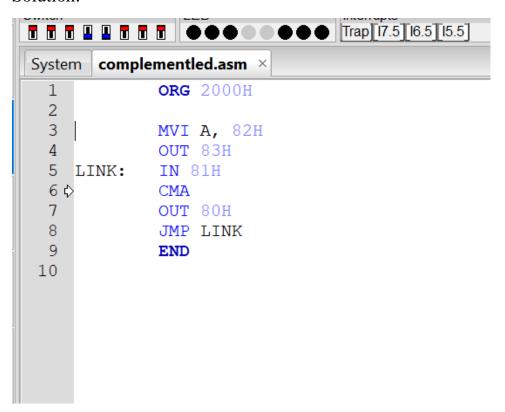
BLOCK DIAGRAM

port B 4 81 H

port c ← 82H

MNEM	821110		COMMENTS 1 9 1A do of
MVI A	,82H	Int Lo	Lood control word in accumulator A A In pont
7 10	884		ruthing volume of
LINK: IN	81 H 139	(9)o	Take saput from 8118 Take saput from 8118 which is post number for
	M		pont B
007	8011		Displaying result in 8014 Displaying result in 8014 which is pont number of pont A
AMP	INK		Jumps to l'obel . D. LINK
and I	N	9/=0	0-13
CHA WITHE	0.000		and of program
V34			As Too of CS PBS
	OPEN COPEN		189 -X- P89 -X

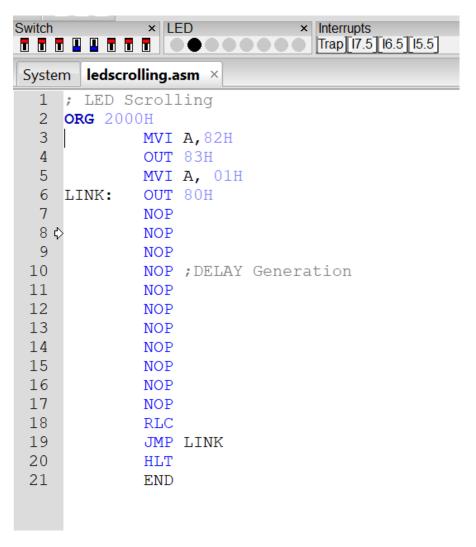
Problem 1b: Write an ALP of 8085 to glow the LEDs connected in Port A, in complemented fashion of the status of Switches connected in Port B of a PPI 8255a.



by white an ALP of 8085 to glow the LEDs connected in port A in complemented fashion of the status of switches connected in port B of a PPI 8255A.

bolistelemente of anosy parties a COMMENTS MINEMONICS Loading control word MVI A, 8214 in accumulation Putting value In seg A into OUT 83H was grotte pont number of car IN 81H dente Take "in put from 81 14 LINK: which is the port number of pont B Complements accumulate using CMA I's complement operation Displays repult in 804 which OUT 8018 0 41d-1 pd 19 is port number of port A Jumps to label LINKING 945 JMP LINK End of progrem FNP

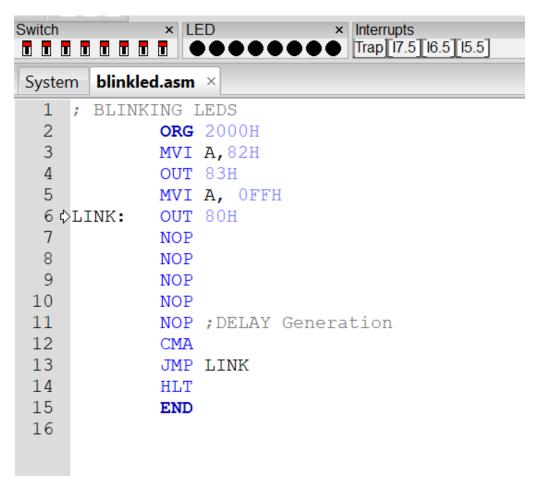
Problem 2a: Write an ALP of 8085 for the scrolling of LEDs connected in Port A of a PPI 8255a.



32)
32)
32)
Double on ALP of 8085 for scholling of LEDs, connected in port A of PDI 8255A

MNEMONICS	COMMENTS
MVI 'A,821 2 TH 3MMS)	Lood control word in accumulation
ndatonussa at	Putting value from rieg A into
-INK.OUT 8618 fo codmon (nood 118 may tudgil evol.)	Putting value from my A into 80H which is address of pont
NOPONOSAJO ROMANIAMO 21	Generate delay AMO
A trady to nadmun trady a	Rototes contents of ocumulators left by 1-bir
HLT company & 603	Endo of program
	FUP

Problem 2b: Write an ALP of 8085 for the blinking of LEDs connected in Port A of a PPI 8255a.



of PPI 8255A.

MNEMONICS	COMMENTS
MVI A, 82 14	Load cw into oney A
H &8 TUO	tool Loods untento of sug 1
MVI A, OFFH	Loods value FFH in sug A
LINK: OUT 80H	Loads centerly of seg A in
	of poor A
NOP	
Nop	Generate Delay
NOP	godine and
Nop	
NOP	
CMA	complements the centents of accumulation using 1/2 complement openations
9Wb FINK	dumps to label LINK
HLT	Terminate
END	End of program