EXPERIMENT NO-5A DOE: 12.03.2019 Dos: 2.04.2019 One strings is located in the memory location 6000H onwards. More this string bytewise & Twordwise to a new memory location 5000 H onwards. Assume that string contains emony location Instructions Comments 2000H MOV SI, 6000H Move the address 6000H to SI. 2003H MOV DI, 5000 H Move the address 5000H to DI. 2006H MOV CX,000 AH Move 10 datas to Counter register CX. 2009H CLD This is used to clear the direction flag, also this used for auto incrementation. 200 AH This is used prior a instruction to. REP repeat it again and again. 200 BH MOVSB Have the string bytemise. 200CH INT O3H END OF PROGRAM. Result:-Output Input -Memory location Data Memory Location Data DIH 6000 H 5000 H DIH AEH 6001H 5001H. AEH C2H. 6002H 500 2H. C2H 22 H 5003H. 6003H 22H FIH 5004H. FIH 6004H A2H 5005H. A2H 6005H 63H 5006 K. 63H 6006H 2AH 5007H. 2AH 5008H 600 7H 30H. 30H 6008H 5009H AOH AOH 6009H

Wordwise:		
Manage		
Memory location	Instruction	
2000H.	MOV SI, 6000H	Comments
20034	MOV DI,50004	The address 6000H to SI.
2006H	-MOV CX,000 AH	address 5000 to Di
		10 datas to counter register.
2009H	CLD.	
		This is used to clear direction stag. It is also used for auto incrementing.
200AH	REP	This is used prior an instruction to
		repeat it again and again.
200BH.	-Movsw	-Move string -wordwise.
200CH	INT 03H.	END OF PROGRAM.
esults:		
input.		Output
Memory local	tion Dota:	Memory Location. Data
6000H.	AEDIH.	
6000H.	22C2H	5000H. AEDIH. 22C2H.
	A2FIH.	5004 _H . A 2FIH.
600 8 H.	2A63H	5006H. 2A63H.
	A030H	5008H. A030H.
6008H.		500AH. AA19H.
600 A H		500CH. 0006H.
600 En		PSM DUELLEW AASTH.
600 2 H		5010H. 026CH.
60 02 h		3012H. A 884H.
60421	7.00	

EXPERIMENT NO-5B

DOE: 12.03.2019 DOS: 2.04.2019

Write a program to compare two strings of data both wordwise and bytewise whether they are equal or not Julidy your answer.

Wordwise: -

Memory location	Instructions	Comments
2000 H.	MOV SI, 6000 H	Move the address 6000H to SI.
2003H.	MOV DI, 5000H.	Move the address 5000H to DI.
200GH.	Mov Cx, 000 AH	Move 10 datas to CX.
2009H.		
		This is used to clear the direction blag and also for auto incrementation.
200AH.	REPE	Repeat till the two strings are equal:
200 BH.	CMPSN	
200CH.	INT 03H.	END OF PROGRAM.
200 BH.	REPE CMPS N	Repeat till the two strings are equal Compare string wordwise.

Output- Flag register, FL= F046.

DIS	D14	D ₁₃	012	Du	D10	Dg	D8	D ₇	D6	D ₅	D4	D3	D2	DI	D.
X		THE RESERVE AND ADDRESS OF		THE RESERVE TO SERVE THE PERSON NAMED IN	D										
1	1	1	1	0	0	0	0	0	1	0	0	0	1	1	0

Since, the zero flag is set ie. 1, So, the two strings are equal.

	Bytewise !-									
	Hemory location	Instruction.	Comments.							
	2000H.	MOV SI,6000H								
	2003H	MOV DI, 5000H								
	2006H	Mov ex, OOOAH	More 10 datas to cx.							
-: = than	2009H	CLD	This is used to clear direction flag and also for auto incrementation.							
and many	200AH	REPE	Repeat till the two strings are equal.							
4,3056	200BH	CHPSB	Compare two strings bytenise.							
45.00	200CH	INT 03H.	END OF PROGRAM.							
	The state of the s		flag regrister, FL= F046 H							
	D15 D14 D13	D12 D11 D10 D9	D8 D4 D6 D5 D4 D3 D2 D1 D0							
	X X X	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	T S Z X AC X P X CY 0 0 1 0 0 0 1 1 0							
		1 0 0 0	001000110							
things.	U		experiment we tearn how to check. two strings are equal ornat.							

EXPERIMENT NO-5C. DOE: 12.03.2019 DOS: 02.04.2019 One string is stored from 5000 , memory location wordwise and bytewise. Check whether a number is present in the string or not. Wordwise: Memory location Instructions Comments 2000H MOV DI,5000H Move the memory location 5000H to -MOV CX,000 AH 2003H More to Cx. MOV AX,0075H 2006H Move the data 0015H to Accumulator. 2009H This is used to clear direction flag. CLD 200AH Repeat till the value is not equal. REPNE Scan the string wordwise. 200 BH SCASW END OF PROGRAM. 200CH INT O3H Output: - value of flag register, FL= F046 DIS DIA DI3 DI2 DII Dio D8 Do D7 D6 D5 D4 X D I S X AC X Cy Since the Zero flag is set ie. 1, therefore the number Is string in the string.

