Experiment No: 5(a)

8.2 strings - I string is located in the memory location 6000 H orwards. More this string byteroise to a new numbers location 5000 H. Assume that string contains 10 members.

Memory	Instructions	Comments
20004		Move the address 60004 to SI.
20034	MOV DI, SDOOH	Move the address 5000H to DI.
2006H	MOV CX, OCOAH	Move 10 datas to counter register CX.
20094	CLD	This is used to clear the direction flagualso this used for auto incrementation.
200AH	REP	This is not a instruction. This is used prior a instruction to repeat it again and again.
200BH	MovsB	More the string bytewise.
2004	INTO3#	END OF PROGRAML

Result:

Memory	Data
6000H	DJ H
P001H	AEH
60024	C241
6003H	224
6004H	AF1H
600SH	A 24
60064	63H
6007H	2AH
6008H	304
6009H	AOH

Output

pa	
Memory	Data
50004	P1#
50014	AEH
50024	C24
5 0034	224
500 UH	P1H
500 SH	#24
5 006#	63H
5007H	2 A 6+
50084	3014
50094	A014

D.O.E! 12/05/2019 Experiment No: 500 Q. 2 strings-1 string is located in memory location 6000H Ombards. More this string word wise to a new memory location 50004. Assume that string contains 10 numbers. Memory Comments Tuetruction Location More the address 6000H to SI. MOVS 1,60004 2000H More the address SDOOH to DI. MOV DI, 5000H 2003H More 10 datas to counter register CX. 20064 MOV CX, 000 AA This is used to clear direction flag. 20094 CLD It is also used for auto incrementing. This is used prior an instruction to REP 200 AH repeate it again and again. 200BH Move string word wise. MOVSW INT 03 H END OF PROGRAM 200 CH Results: Output! Input: Memory Location Memory Data Data 40000 5000A AEDIH AEDIH 60024 50024 22C2+1 22C2H 60044 4,4005 AZPIH AZFIH 5006H 6006H 2A63H 2A63# 5008H 6008H A030H A030 H 500AH AA19H 600AH AA 19 500CH 0006 H 600 Cer 0006H STODEH AASTH 600 EH AASTH

60104

6012H

026CH

A-884H

026CH

A-224 #

5010H

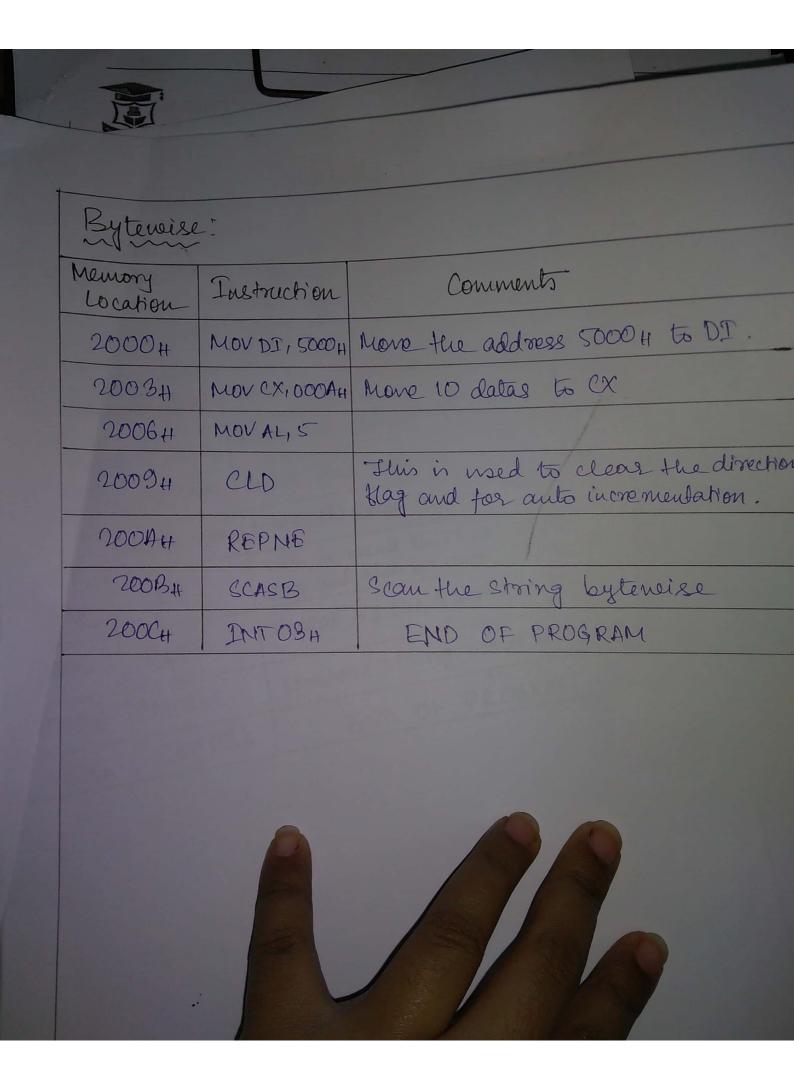
5012H

Experiment No: 5(c)

One string in stored from 5000 H memory location [byte weise and wordneise]. Check where a number is present in the string or not.

Wordwise!

Memory	Instruction	Comments
2000 _H	MOV DI, 5000H	Move 5000 H to DI.
200 3 ₄₁	MOV CX, OCOAH	More 10 datas to CX.
2006 H	MOV XX, DOISH	
2009 _H	CLD	This is used to clear the direction blag.
200AH	REPNE	
2008#	SCASW	Scanthe string wordneise
200CH	INT OBH	END OF PROGRAM.



D.O. E:12/03/2019

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Experiment No: 5(b)

WAP to compare 2 strings of data both wordwise and bytewise wheles they are equal or not. Justify your answer.

Wordwise:

Memory Location	Instruction	Comments
2000 H	MOV ST, 6000H	More the address 6000H to SI.
2003H	MOV DD, 5000H	More the address 50004 to D.T.
2006H	MOV CX, 000AH	More 10 datas to CX.
2009H	CLD	This is used to clear the direction flag and also for auto incrementation.
200AH	REPE	Replat till the 2 strings are equal.
200BA	CMPSW	Compane string word wise.
200CH	DNT03H	END OF PROGRAM

Memory	Instruction	Comments
3000H	MOV 2 I, 60004	Move the address 6000 H to SI.
2003H	MOV DI, 5000 H	Move the address 5000H to DI.
2006H	MOV CM, OOO AH	Move 10 datas to CX
2009H	CLD	This is used to clear direction flag and also for auto incrementation.
200Att	REPE	Repeat till the 2 stringe are equal.
200 B H	CMPSB	Compane 2 string bytewise.
200CH	INT 03 H	END OF PROGRAM