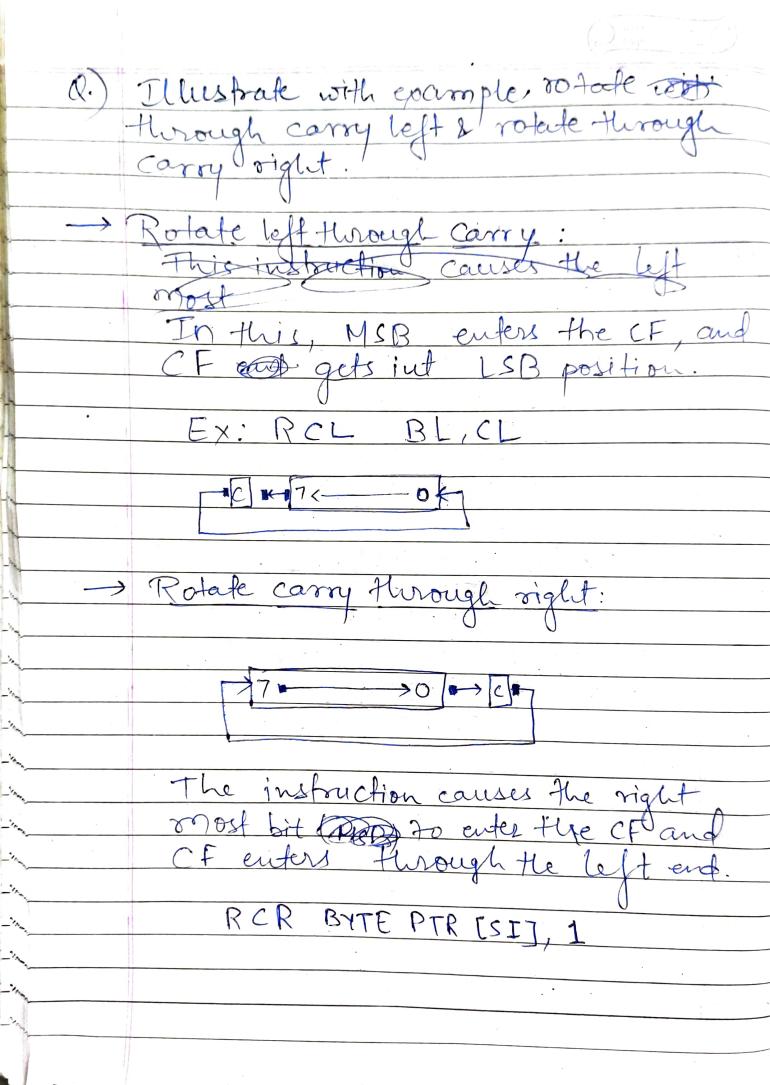
	Duit B
O	Discuss with an abbrobriate example
9.	Discuss with an appropriate grample for jump, Loop and compare instructions
	51 80/86
	Jump-JMP
	Syntax: JMP destination
	destination is a memory location; Jump
	inston breaks the normal sequence of
	Drogram enecution, and takes the control
	to a different location in the code segment.
	MOV
	ADD
	JMP AGIAIN
	AGAIN:
	LOOP Label
)	This is a very useful and requestly cused
	-
	look combine jump with es a counter.
	to secretes ex is assigned to decrement.
	The register ex is assigned to decrement.
	The register ex is assigned to decrement.  every time loop executes: When torcx = 0,
	The register ex is assigned to decrement.  every time loop executes: When torcx = 0,  the loop is epited.
	The register ex is assigned to decrement.  every time loop executes: When torcx = 0,  the loop is epited.

iii) CMP destination, source The instruction compares the two operands, causes the conditional flags to be affected, but source bedestination doesn't change IF. ZF CF destination > source destination (source des = source. . ( what is meant by masking? woith an example explain stoo how it is used with Logical AND oberation. Masking is used to select whe part of a word or a byte needed, while making the unwanted bits to be Zero. (IIt is associated with AND speration. Ex: MOV AL, 78H AND AL, OTH This gives AL = 07 H in AL register

(1)	Search a character string for a particular
	chara der.
	· MODEL SMALL
	· DATA
	STRIN DB "HOWAREYOUMY BOY"
•	LEN DO DEH
	MSGIL DBOAH, ODH, "FOUNDS"
	MSG2 DBOAH, ODH, "NOT FOUND!"
	· CODE
	LEA BX, STRIN
	MOV CX, LEN
	MOV AH, OI
	INT 21
	REPEA: CMP[BX], AL
	JE FOUND
	INC BX
	LOOP REPEA
	LEADX, MSG12
	JMP DISP
	1 EA DX MSGI
	MOV AH, OG
	INT 21 H
	·EX1T



## a.) Pre-requisite for string operation be initialized used Data segment is the source segment XES is the destination Segment ii) The DI register and SI registers should act as pointers. et should confain the offset of 1st location of DS and DI should doulain offsett of first location of Es. iii) DF is should be set or reset so after one operation, it's gets auto in cremented or decremented. iv) Cx should be loaded with the count of number of 860 required.

STOS & LODS STOS The STO instruction is the more roonic for storing in memory. For this, Es is used and is pointed by) I at it is destination segment. The data to be stored is placed in AL/AX. LODS: It's an instruction for loading Source memory is the DS & destination Segment is AL/AX. Ex. for stools · MODEL SMALL ATAC D Area DW 50 DUP(?) ·CODE ·STARTUP MOV AX, DS MOV ES, AX LEA DI, Area MOV CX,50 CLD MOV AX, 0001 REP STOSW

· EXIT



Q) Distinguish b/D wear & far call. -> Near Call: i) Direct CALL. Syntap: CALL Label OPCODE OFFSET LOW OFFSET HIGH NEW IP = Current IP+OFFSET (16 bit) Format of the direct near call CALL MULTI ii) Indirect Call syntap; CALL reg16 In this destination is specified in 16 bit register or in a memory location FAR CALL: i) Direct far call A far call is an intersegment call, which means that distinction is in a alifferent code segment OPCODE IPLOW IPHIGH CS LOW CS HIGH Format of the far COURCALL

