	JUNAID GIRKAR
14/12/21	60004190057
	TE COMPS AY
	Construction of the second of the first terms of the second of the secon
QI	
ANS	The term addressing modes rejers to the way
	in which the operand of an instruction is specified
17.19.11	The addressing mode specifies a rule for
in any	interpreting or modifying the address field of the
1 2 7 G X8	interpreting or modifying the address field of the field before the operand is actually enecuted.
11371-8	According to their typ purpose, they are divided into
	two types:
	- Addressing modes for data
	- Addressing modes for branch
1 P	alogica está se bloco sivil dis contra grapacida dosta, e
. !	According to different ways of specifying an operand
1	by 8086 microprocessos, different adolessing model
· It	are used in 8086 programming they are:
	THE PROPERTY OF THE PROPERTY O
	IMMEDIATE ADDRESS MODE: In this mode, the data operand
	is a part of the instruction itself.
DAL W	E.g: MOV CX, 4929 H, ADD AX, 2387 H, MOV AL, FFH.
,	REGISTER ADDRESSING MODE: It means that the registed
	is the source of an operand
	for an instruction.
4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E.g.: MOV CX, AX; copies contents of 16 bit Ax register into 16 bit CX
	ADD BX, AX
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	DIRECT ADDRESSING MODE: the addressing mode in which
5 1 1	the ejective address of the memory
	location is written directly in the
	instruction
	E.g: MOV AX, [1592H], MOV AL, [0300 H]
•	REGISTER INDIRECT ADDRESSING MODE: This addressing mode
i i	allows data to be addressed
	at any memory location through
	an offset address held in any
, , , ,	of the following registers: BP, BX, DI & SI
11.1	E.g.: MOV AX, [BX]; suppose BX contains 48H, then coments of 48H
	; are moved to Ax
<u> </u>	ADD CX, {BX}
	z establer and grouper in dispersión. A m
•	BASED ADDRESSING MODE: In this addressing mode, the offset
0.1	address of the operand is given by
-	the sum of contents of the BX /BP
	registers and the 8-bit/16-bit displacement
	E.g: MOV DX, [BX+O4], ADD CL, [BX+08]
	· marks and appears Michael in this through that de-
)(() () () •	INDEXED ADDRESSING MODE: In this addressing mode, the openeds
· \$1	giset address is jound by adding the
. * .	contents of si are DI register and
121 -	BIG - DIE CUSPIQUE MENTS.
J. (1)	e.g: MOU BX, (SI+16], ADD AL, CDI+10]
	The state of the s
) tid al	of (1) 1/2 1000 1000 1000 1000 1000 1000 1000

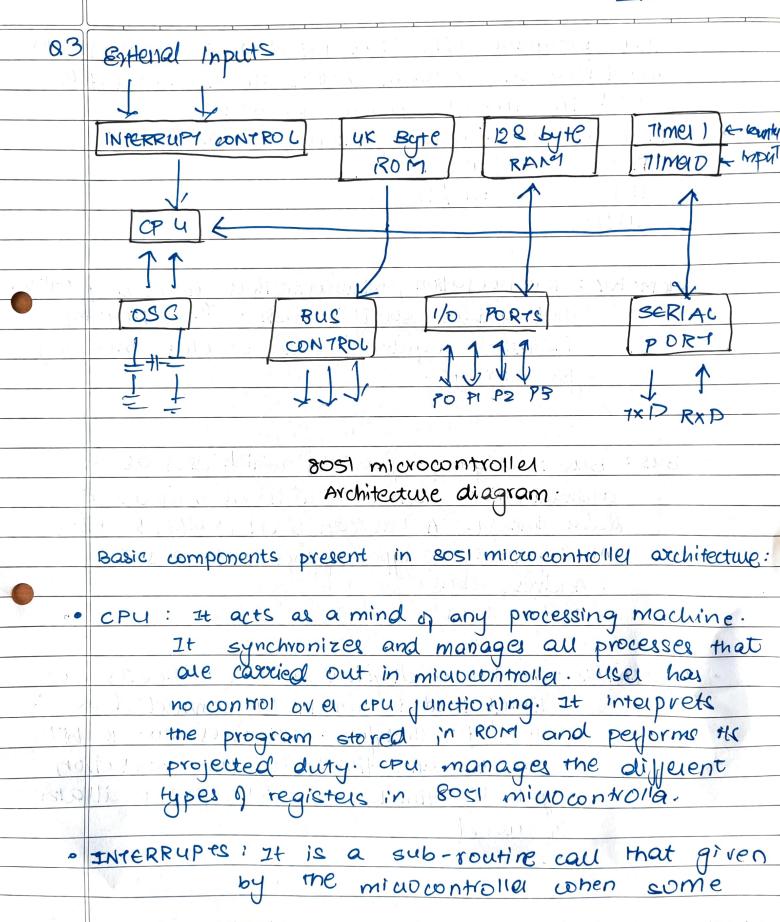
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J	
•	BASED-INDEX ADDRESSING MODE: In this, the giset addess
	of the operand is computed by
	summing the base register to the
	contents of an index register.
	E.G. ADD CX, [AX+SI], MOV AX, [A X+DI]
	The same of the sa
D	BASED INDEXED WITH DISPLACEMENT MODE: In this, the
	operands giset is computed by
	adding the base register contents. An
	Indea legister content; and 8 or k-bit
	displacement
	E.g: MOV AX, (BX+D1+08], ADD CX, [BX+S1+16]
	Professional Leading (Dr. Hone)
	End the work of
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	and the state of t
	Control of the state of the sta

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ANS
    Data Segment
    string 1 VDB OBL, 14h, OSh, ofh, 09h
     res db?
     data ends
     code segment
     Assume cs: code, ds: data
     Start :
     mov am data
     movinde, anima in monde monde
      mov ex, ouh
     110move 61,00 h a 1 1 1 1 2 2 + 1 a + 1 d 1 . A 1 1 1 1 1
       LEA SI, String 1
       up:
         mor al [SI]
         cmp al, bi
         ji nxt
       nnt:
         inc si
         dec ex
         joz up
        mov res, 51
        int 3
        code ends
        end start
```

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other program with high priority is request for acquiring the system buses the n interrepts occur in current running program.

There are 5 sources of interrupts in 8051:

-TFO - INTI

-TFI - RI/TI

memory: For operation, microcontrollers need a program
that quides specific tasks. This program
inclaved requires some on this memory

son strage!

: Duto

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who call that days

- oscillator is a digital civilit, it needs a times that is enternally connected or on-clup. Therefore soff uses two is bit counters and times. For the operation of these times & counters, an oscillator is used

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