19.03.29 slide -1,2,3 p Pin diagram, description Arrehitecture Purpose, plag functionality, difference. Lecture - 6 11.03.24 Chapters-8 semiconductor removey and Interfacing Memory - Arimary - secondary one type RAM-volatile programmable Rom - non-volatile -PROM - Priogrammable Rom Lo manufacturer sols Pols manufactwer -FPROM but usen Garara majo भागार निर mg, second time vost EE PROM छात्रे bलाए। - Shadow RAM/NVRAM ग्राष्ट्रिय, aman masa -Flash Rom

- Bit by Dit FROM - Electrically - centain time order oral sing, circuit booked Talto salamer ango 215, White violate Ray पत्र महित्र हे ने हिंग Expose वादन हारकेट वार्व हरा, obit by bit - ON BOOMED OF ANTE STATE OF BOOMED -EEPPOM BOBS DATA ETTASE TRAFT. flash pory - ON BOARD 4 Errase Trager, Block by block Data eruse majo major, La pendrive. Shadow RAM/ NVRAM - POWER ON TREET DATA POTE TOTAL Power of train or EEPROM 2 20018, RAM SRAM-Flip-flup tofa- DBit by but store off Refresh most mores or, - DRAM - o corpacitors FAR Rofo, Refresh DEnhanched DRAM-DSRAMHDRAM Go concept merge sols TOST WITH Ready Tra 20 D and Data Rate DRAMS positive a part Locost TOLS, कार्य करिं। + PREDERESSOR GONA FOAR DRAM + Ve 3 - Ve - g2 fng of and and,

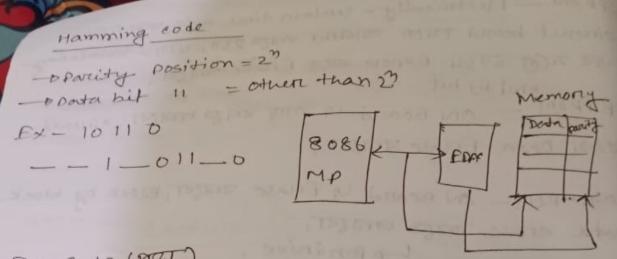


Fig: 8.10 (MCT)

DRAM STAGEGI BATAT USE TRATET CHANGE Leakage 125, orz certain period was refrush arat 25,

a DRAM LA ETITION Prievent assistation EDAC

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+ Processore data EDAC 42 20025 20025 memory
TO Store off, EDAC party bit generals
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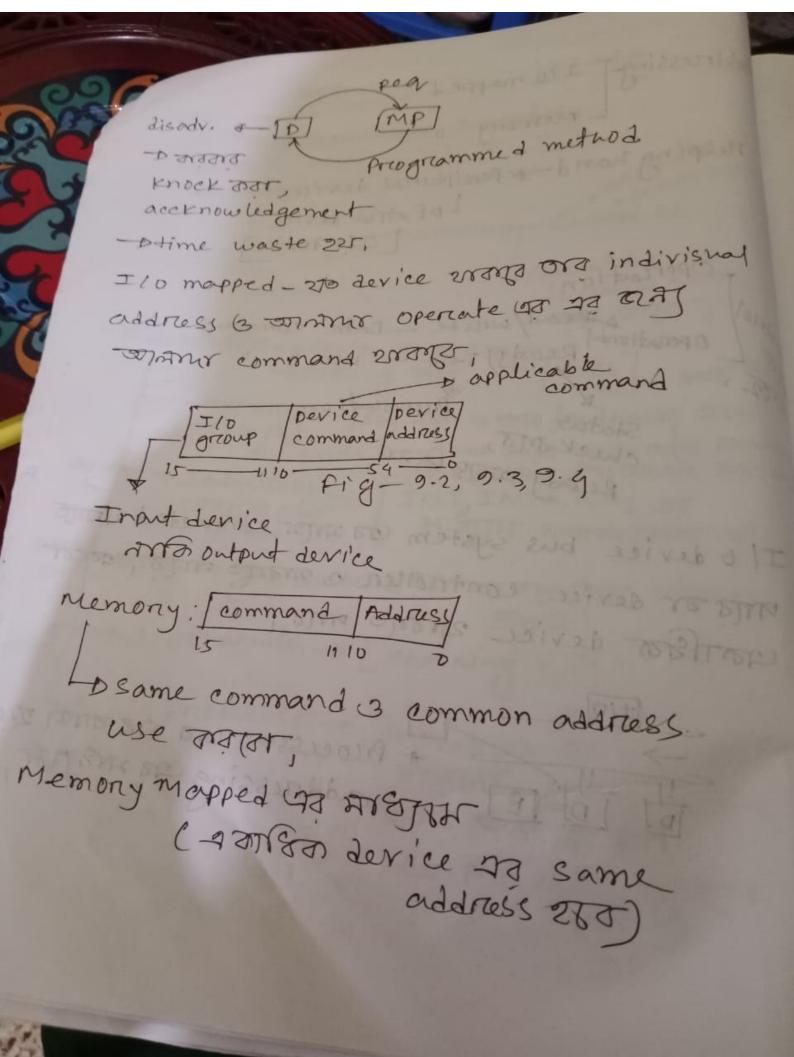
Harming single bil ennon - single bil detects connect code multiple " " and single bil detects connect use multiple " " detect dest single part, single bit LO DIEGO HOLLIO 10110 2 = 0 - 00 1,2,4,8,16,32,64. pata + parcity = codeward ID I I D S+ep-1
1 1 1 011 - 0 1 X 1 X TXT X T & position wise data consider and skip then pareity calculate major. Pb=0 corre; outerlies Step-2 ousped value 02 mg 011-0 0 1 1. Pb= 1 Step-3 0110000 1 TTT X X Even p3=0

011001100 CW: 011001100 D :10110 cw: = 011001100 Bit change: 01,1000100 P1 = 0 High (25TO 10W नितं (थाक देनहरू) \$ 6110)[2+2'+2'] then decimaly = 6 convert singar, midy coloulate mater. corra: 01100110 0 output value 0 21 m 302/15 Parcity 0 00 Ermon 283 Ar, corre: 011001100

Data: 10110

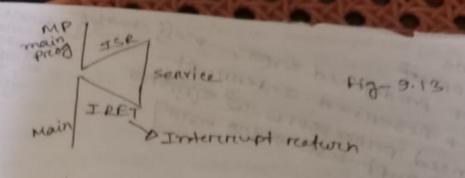
14.03.29 Lecture - 7 I/o modes and Interifacing * Basic orang percipheral device _ 110 device & Ready Tor controller- General De special DC Lo special task D I/O modes to Device controll asto [8086] Accomode friogrammed - Trequest is one feedback work dis: slower device KNK and on the constant Frady DINTERRUPT JNT, INTA, NMI JO (भवाशय विका माश्चीम controlast त्रव use 221) Used DOMA-D [Preocesson Ever memory (3170 womer-01/ochannels - D [channing 2] 10514 DI/O PROCESSOR - DT PROCESSOR AS MENT COSHLY Tront, Device contral wall will Extra CO-buscossou sissing

Helping hand - percipheral derices LOEXTRA divice [Ilo device] Operation operationed Ready) Test - non 11 11 3515 Preparenti on Status check onto, Ready was for Ar. Il to device bus system as mos connected veryo and as device controller is many auto, do as casillar device energo mes. #10 TE addressing as mother, 20 2018 30 30 Serve



communication was eng 3tr step use 25, _ pserivere a request / Initialize analysis room bata triansfer D Tenminate Internate, sign sinul such reserves or ell or Request pozocesson to mortar 225, one time of signal/ request signal. 5350 Processor allow or hold soals alle The Thether of the water alue that bloom where FORMADANE PASTED TO

Transprocessor was (8) Car 53 1200 - maskable ble External Internal (processor as 6000 Esta generation - software interrupt. Lo one type of coding Software (25 (0) - special interrrupt/others * Invally operation DIETI पत कामा ७३ देव (मेर Inperiorpt 225, Power failure LAS कविद्या Intercrupt service portine Basica Instruction गाक, राभाम वर्म भाक CI COMAT Interrupt DERMET ENTERCO Indemnipt of Stagfa service pesponse time -Provide majo, Priocesson 40 onto Interrupt was 3 service मुक्त काडा भार्यक time. ISP- (०१० मिन्ना ग्रावि की दिवानं साहिस नगुरुठा



CPU status - Register value, Flog value stone ongo,

Main Program & Retwin Trava Step

1. Stack decrement flag 43 value stone 19101

2. Flag vallegisters (3) value storz

2. If flag disable soot,

3. Trap Flag disable 11

4. Stack is code segment store mg, (22 byte)

5. Instruction pointers store major, (2 byte)

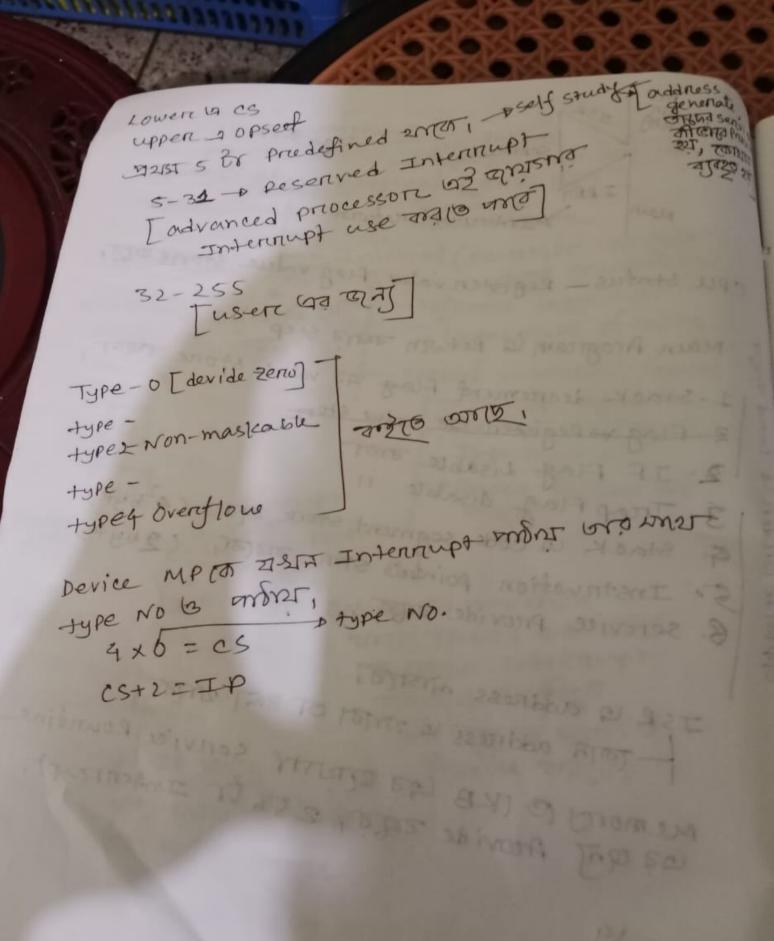
8. service provide anso

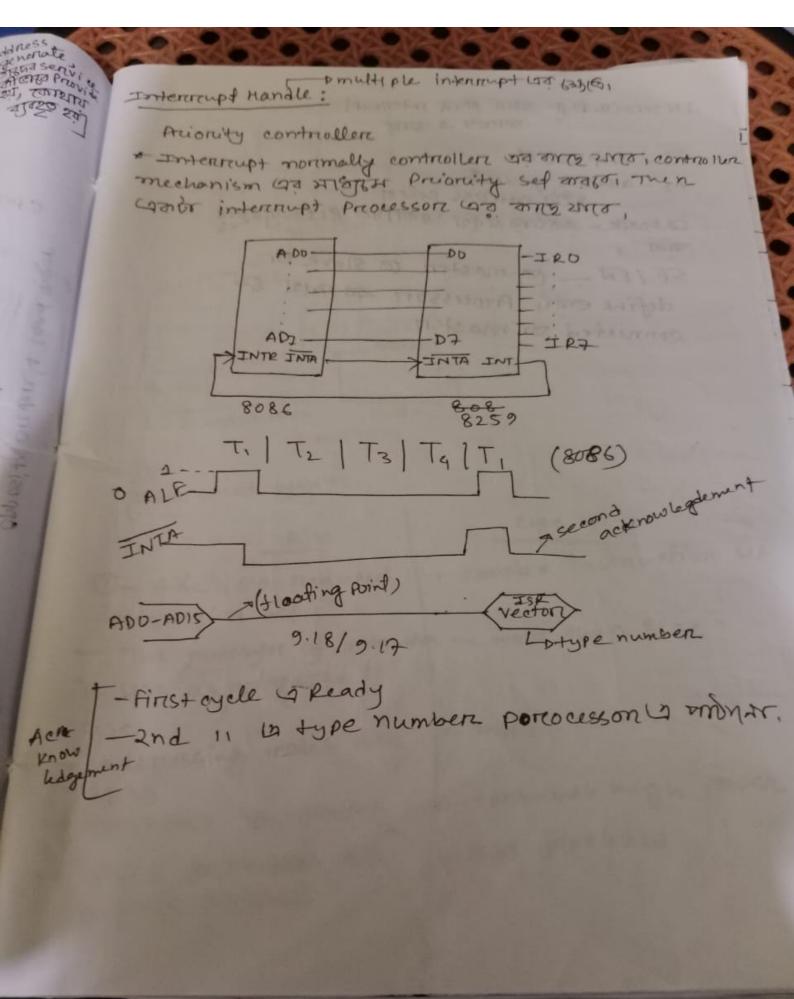
TSR 4 address misita,

Memory 10 IKB GA EURISM Service Rountine GA QAJ Arovide AGA, 256 Er Interrupt.

Fig- 9.14

Opposite Onden Ly





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21.04.24

EMET task execute grand with

Processore for knock and 2005 intercept

Maskable interrupt of External

Hardware 11 3 Interinal

Intercrupt pasponse -

Type number -> vector table

32 br int fixed

rector table

umfor Interurupt

8259

8 bit us comman world MIDIET processon signs External percipheral device (mir,

Fig: 9.39: 8259 Internal block diagram

2086 Connected External percipheral device comman world

Database buffers 20 200 200 Tread write (Do-DZ) | La comman world month, Additionals

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Read write logic - outractivate major at my region read or write out activale orager, es: chip select ma es activate mater or most rate. A O: Addressing purpose to graze 221, cascading campan 8250 grapes mor thigh SHEN: Master 8259 C50 LOW SHEN: SLAVE 8259 SPEN INA multiple 8259 not suited solly of gelle IMR: Interrupt MASK REG master of Afglar slave याही int (य श्रुलि अविव्यं define sols! उत्तरिक क्षांत्रीम क्षार्टिक क्षार्टिक Mister ! IRO - IR7 THE INTER WATER, ASTUMBLE IMP ON OF Ap sulterue 'eleers no sunt esse esse eleve susula! OI suzer ou ouale our regime o oriesta! mask Reg. IRG IRS . . . IRO 6 000 0 00:080 0 000 0 1 0000

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1st ACK: 8259 FATCELLET READY TOTAL JANGER (125, 2nd 11: 8086 20 DOTEN Intra mother (125,

vide Ist Ack: Slave Total type number masters (ATES मिख्याई DOT - slave to leady mys, 5 मर ॥ : 808° चत्र कार्टि प्राप्टि System connection 825 9 priorcity basis a selection of the Thor multiple Interment (250) TIRO Intre Reg Register 8252 IR2 In service (Priority DINTO IRG Desolvery) control logic (INT Pin 8086 7 3662 Pause mont 373 info storce rogo sonos IRG IRZ IRI IR4 IR, IR, IRG IRI IRZ STI: Set Internupt

201 interment pin fight PUBLT INT MET 8086 (1000) (8250 (3100) [8086 + INTR PINK INT 8250 # 187 | 8250] 35 8513 (James) Highest expand and to DIN WELZIA 109 motor, slave 8 or connect mago major 1 Er master 8259 43 M25, 8 086 23 3ME type number mono 218, master/slave TOSTOR 8 ET SLAVE GO ID number Tud But som number ZUIT ZIS, Random 210 anto ID number. Musto 000000 with justification 8259 command STO percipheral device world 428 bit 28 QAT (42 initialization Stage same.

