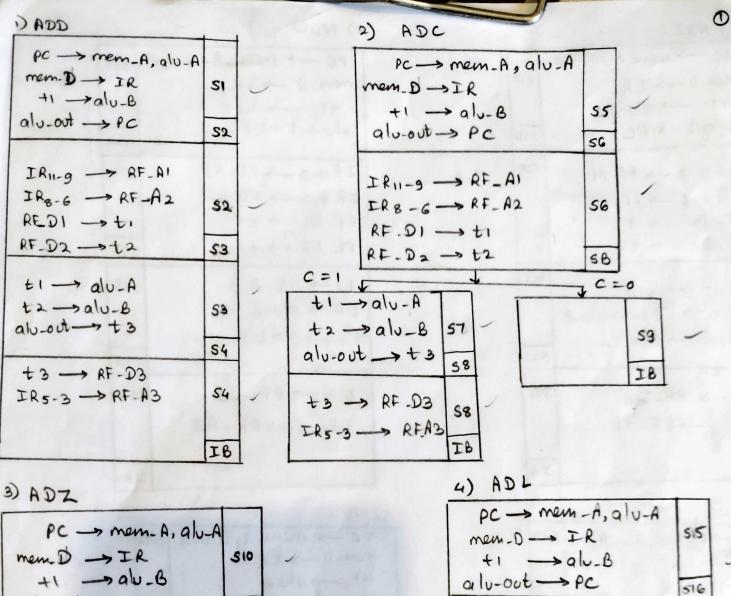
EE309 Project Pranoti Pravin More -200070058 Ranie -20d070063 Krutheeka R K J -200070038 Kritika Gupta -200070037



PC -> mem. A, alu-A mem. D -> IR +1 -> alu-B	510
alv-out -> PC	SII
IR11-9 -> RF.A1 IR8-6 -> RF-A2	511
RF-D2-> t1	58
7=15	7=0
ti - alu-A t2 - alu-B	S12 - S14
alvout -> t3	SIB TB
t3 → RF. D3 IR5-3 → RF.A3	513
	IG

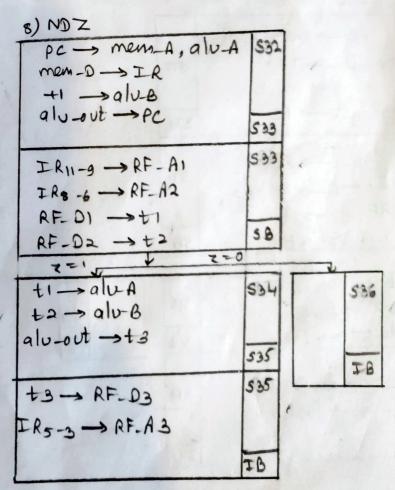
4) 406	-
$pc \rightarrow mem - A, alu-A$ $mem - D \rightarrow IR$ $+1 \rightarrow alu-B$	515
alv-out -> PC	516
$ \begin{array}{c} IR_{F9} \longrightarrow RF-A_{A} \\ IR_{8-6} \longrightarrow RF-A_{A} \\ RF-D_{I} \longrightarrow t_{I} \end{array} $	516
RF-D2->t2	517
$ti \rightarrow alu - A$ $ta \rightarrow is \rightarrow alu - B$	517
alvort -> +3	518
t3 → RF-D3	Sis
FR5-3 → RF_A3	IB

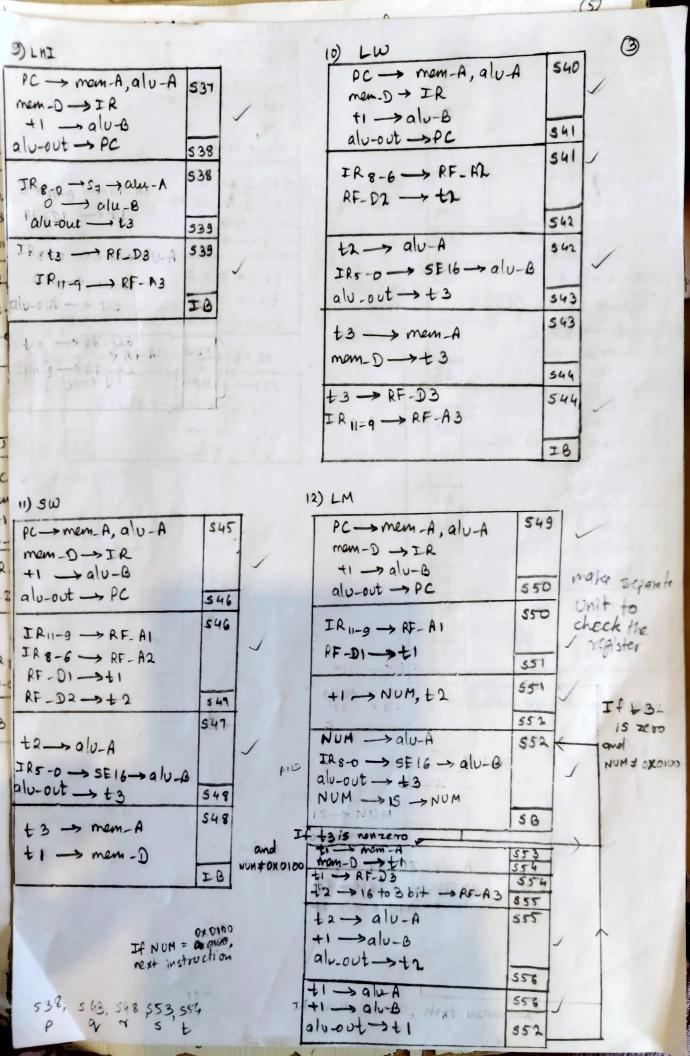
6)	NDU

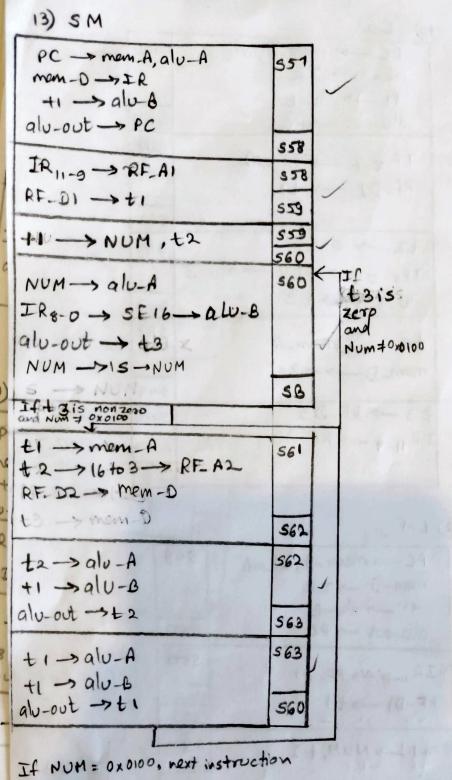
	IB
$t3 \rightarrow RF-D3$ $IR_{8-6} \rightarrow RF-A3$	522
410-001 - 13	522
$ti \rightarrow alu-A$ $IRF-0 \rightarrow SE16 \rightarrow alu-B$ $alu-out \rightarrow t3$	521
RF-D2 -> t2	521
$\begin{array}{c} IR_{11-9} \longrightarrow RF_{-A1} \\ IR_{8-6} \longrightarrow RF_{-A2} \\ RF_{-D1} \longrightarrow \pm 1 \end{array}$	\$20
alv-out -> PC	510
PC → mem.A, alu-A Mem-D → IR +1 → alu-B	519

$PC \longrightarrow mem_A, alv_A$ $mem_D \longrightarrow IR$ $+1 \longrightarrow alv_B$	523
alv-out -> PC	524
$IR_{11-9} \longrightarrow RF-A1$ $IR_{8-6} \longrightarrow RF-A2$ $RF-D1 \longrightarrow t1$	524
RF-D2 -> +2	325
ti-> alu-A t2-> alu-B alu-out-> t3	525
4 (0-80)	526
±3→RF-D3 IR5-3→RF-A3	526
	IB

J) NDC			
PC -> mem_A, alu_A	527		
mam-D-SIR		1	
+1 -> alu-B			
alv-out -> PC	528		
IR11-9-> RF-A)	528	/	
IR8-6 -> AF-A2			
RF-DI-> t'			
RF-D2-> t2	98		
CEL	-	C=0	
ti-> aluA	529	53	11
+2 -> alv-B	1	5/36	
alv-out -> +3	530	-	-
	530	130	<u>ग</u>
+3 -> AF-D3		/	
ER5-3 → RF-A3			
	+ 0		







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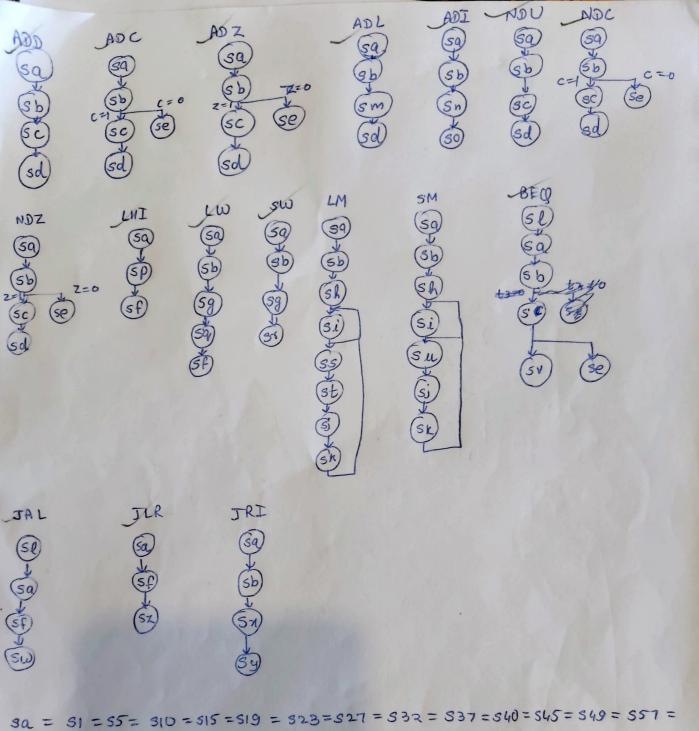
16) JLR 14) BEQ PC-> PEI PC -> mem-A, alu-A mem-D -> IR +1 -> alu-B alv-out -> PC 566 566 IR 11-9 -> REAL IR8-6 -> RF-A2 REDI -> t1 AF_D2-> +2 567 ti - alu-A 567 ters alu-B alv-out-7-63 53 If +3 # 0 # +3=0 1 PCI-salu-A 568 IRS-0-SE16-01U-B alv-out ->+3 IB +3 -> PC

ISTOAL	
PC -> PC1	570
pc mem -A, alv-A mem -D -> IR +1 -> alv-B	571
alvout -> PC.	372
alv-out -> +3 +3 -> RF-D3	572
IR 11-9 -> RF-A3	573
PCL alu-A IR 8-0 -> SE16 -> alu-B	573
alvort -> PC	
410-001 -> 70	IB

PC-> mem. A, a u.A	374
mem-D -> IR	
alu-out ->PC	575
alv-out-> +3	575
+3 → RF-D3 TR11-9 → RF-A3	576
IR8-6 -> RF_ A2	576
DF_D2→+2 +2→PC	IG

17) JRI

1) J KI	
PC -> mom-A, alu-A	577
mem-0→IR +1 -> alu-8	
alv-out ->PC	578
IR 11-9 -> RF. AI	578
RF-DI→ tI	579
ti -> alu-A	579
IR8-0->5E16-alu-B	
alv-out -> t3	580
	580
t3 -> pc	IB



30 = 31 = 55 = 310 = 515 = 519 = 323 = 527 = 532 = 537 = 540 = 545 = 549 = 557 = = 565 = 571 = 574 = 577

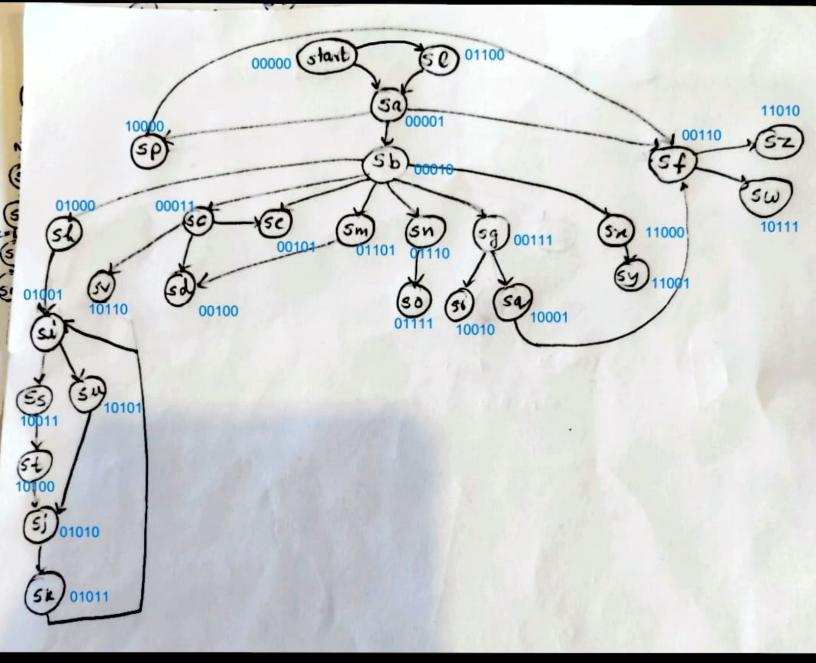
8b = 82 = 86 = 811 = 816 = 820 = 824 = 828 = 833 = 841 = 846 = 850 = 858 = 866 = 878 8c = 83 = 87 = 812 = 825 = 829 = 834 = 867

5d = 34 = 58 = 613 = 526 = 530 = 518 = 5355e = 89 = 814 = 831 = 836 = 569

sf = 339 = 844 = 572 = 975

5 V = 568 3n = 321 = 842 = 847 3W = 573 50 = 922 sh = 951 = 359 Sn = 979 Sp = 938 51 = 352 = 360 59 = 943 sy = 580 = 355 = 362 38 = 548 52 = 576 = 556 = 563 55 = 553 l = 564 = 570

sm = 517 st = 554 su = 561



```
If reset = 11 then
          ns & . 00000 " St= "01100.
                             sa 7 " 00001"
elecy Jos K= 00000 J then
      WEU) <= 'O' SL-RER + JAC
      no (3) <= 03 02 0,
      ns(1) <= 030,01
      ns (1) <=0
      ws (0) <= (030201)
als is at "01100' then
                                   Sp-10000
        WX= "00001"
                                    sb -00010
                                    4 - 00110.
 else if OSK= "00001" then
        W (4) ( 03020100 (CHI)
         ns(3) <= '0'
         W(2) L= 0302(0,00+0,00) (JALIJLR)
         w(1) <= [030,0,00]
         ng(0) <= ,0,
else ig .
        es = "10000" the
          NO K = " 00110"
elle il
        05 <= 00010 " them
                                        sh = 01000
           ws (4) = 02020,00
                                        Sc - 00011
          W(3) 1= 0, (0302 + 0502) + 02020,000 - 00101
          15(2) 1= 030, (0,000+0,00)(cz+cz)
                                        m - 01101
                           + 03 02 9 + 03 0200 1 - 01110
                                         89-00111
                                         57 - 11000
```

W(1) <= 93920100 (cz+cz4+ czz1) + 03020100 (cz+cz4 + 5221) + 820,0,00 + 0,0,00 ns(0) 1= 030, 0, + 0, 0, 0, 0, + 03 0,00 all 4 US K= " 00110" then SW - 10111 ns(u) == 111 52. 11010 W(3) & 030,000 NS(2) <= 0,0,0,00 W(1) = 11 NE(0) 42 030,000 en y cs (* 01000° mm ns (= * 01001 " 01101 - V2 elect a = " 00011" there sd - 00100 no(4) <= 030,0,0021 36 - 00101 W(3) 2=101 ms (2) <= 11) m(1) 1= 920,010021 62 G + CZZD + 010, 0,0, C - cz C n(0) 1- 030,0,00 +2277 + 0,0,0,0,0,2

elect 108 x= "00101" than WY = " 000000" els if a c= "01101" then m 2= "00100" esse 20 cs <= "01110" than No <= " 01111 . else & ts L= "00111" +m ST-10010 ns (4) K=1,1. sq - 10001 ns(3) + 'o' か(2) と '0' 75(1) <= 0,0,0,0,0 SW ns(0) 1= 030,0,00 ess of 05 <= "11000" then m 1= "11001" us = "01001" them ب علد 55 - 10011 no (4) <= '11 SU -10101 ns (3) <= 10' no (2) 1= 030,0,0. ns (1) <= 030,0.0. M(0) (= "1" ell! if a L= "10011" tun ns <= 101000 (4 = "10101" or U = "30100") than use if ms 1= "01010"

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ent of 01 01010 then no <= "01011". ell if 0 /= "01011" then no <= '01001'. ess of cs <= "10001" ns 22 " 00110". will [18 = "10110" or Us = "00100" or us = "011111" or Cs <= "10010" or (se= "11001" or as <= "10111" or as <= "11010"] then ns K= "000000" 1 3/2

