```
unit - 3
```

Write a sperguam to stoggle all the bits of plevery 200ms. Assume conjustal frequency is 11.0592 MHZ and the System is using DS89C420/30/40/50.

; Tested for DS89C420 of 11.0592 MHz.

MOV A, #55H

AGIAIN: MON PI, A

ACALL DELAY - 200 m.

CPL A

SJMP AGAIN

;---. Time idelay

DELAY _ 200 m;

Mon R5,#9

HERE 1: MOV R4, #242

HERE 2: MOV R3, #255

HERE 3: DJNZ R3, HERE3

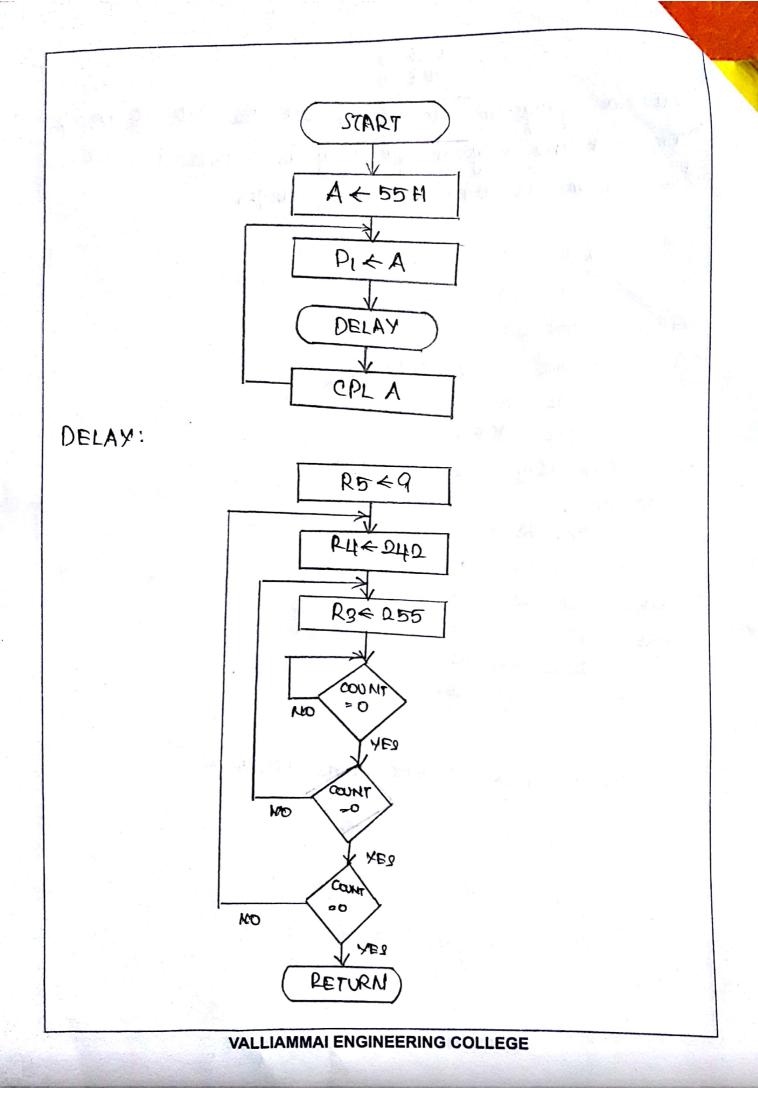
DJNZ R4, HERE 2

DJNZ RE, HEREI

RET

Delay 9 x 242 x 255 x 4MC x 90ms = 199, 940ms.

Scanned by CamScanner



PART-C UNIT-2

Develope a program using the ADI ristruction to add two heredecimal numbers 3AH and 48H and to display the answer

at the output port.

HOIL O IN

Lo og 2"

A,3AH IVM 484 ADD 00 H OUT HLT.

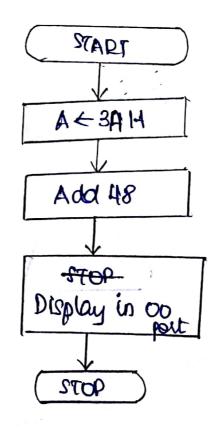
13A-0011/1 1010 48-0100 1000 (4) 07100000010 X/11

203

SM

Tille

PLOW CHART:



Write a program to transfer 50 bytes of data from memory boration starting from 2000 H to 3000H using the memory pointer concept in 8085 mindproversor.

1181 INA

JARE

H11 = 1

W/ 64 115

31 4

TXI H, 2000 H

LXI D, 3000 H

010 MYTO C, 32 H (= 50) HASA GV/A

Repeat MOV A, M

STAX D

INX H

C XNI

DCR C

JNZ Repeat

HLT.

MAN J. I

10 i) Assume the SP register contains 2099H, register B contains 32H and register C contains 57H. Write the instructions to same the contents of the BC register pair on the stack and specify the register contents (SP,B and C) after execution

LXI SP,2099H LXI B,3257H PUSH B HLT

AFTER EXECUTION:

SP= SP-2 = 2097H

B = 32H

C = 57H

MEMORY

2098:32 H(B)

2097: 57H(c)

```
ii) FIND THE TWO'S COMPLEMENT OF A 16bit DATA WITH
 EXAMPLE
LXI B,2345H
MOV A,C
CMA
MOV E, A
Mov A, B
CMA
MOV D,A
LXI H,0001H
DAD D
SHLD 2000H
HLT
OPERATION:
    23
                  45
      B
 0010 0011
              0100
CMA
      D
 1101
     1100
              1011
                   1010
       H
0000
       0000
              1000 0000
DAD D
  1101 1100
             1011 1011
     20014
               2000H
      V
                 4
     Dc
                B 13
```