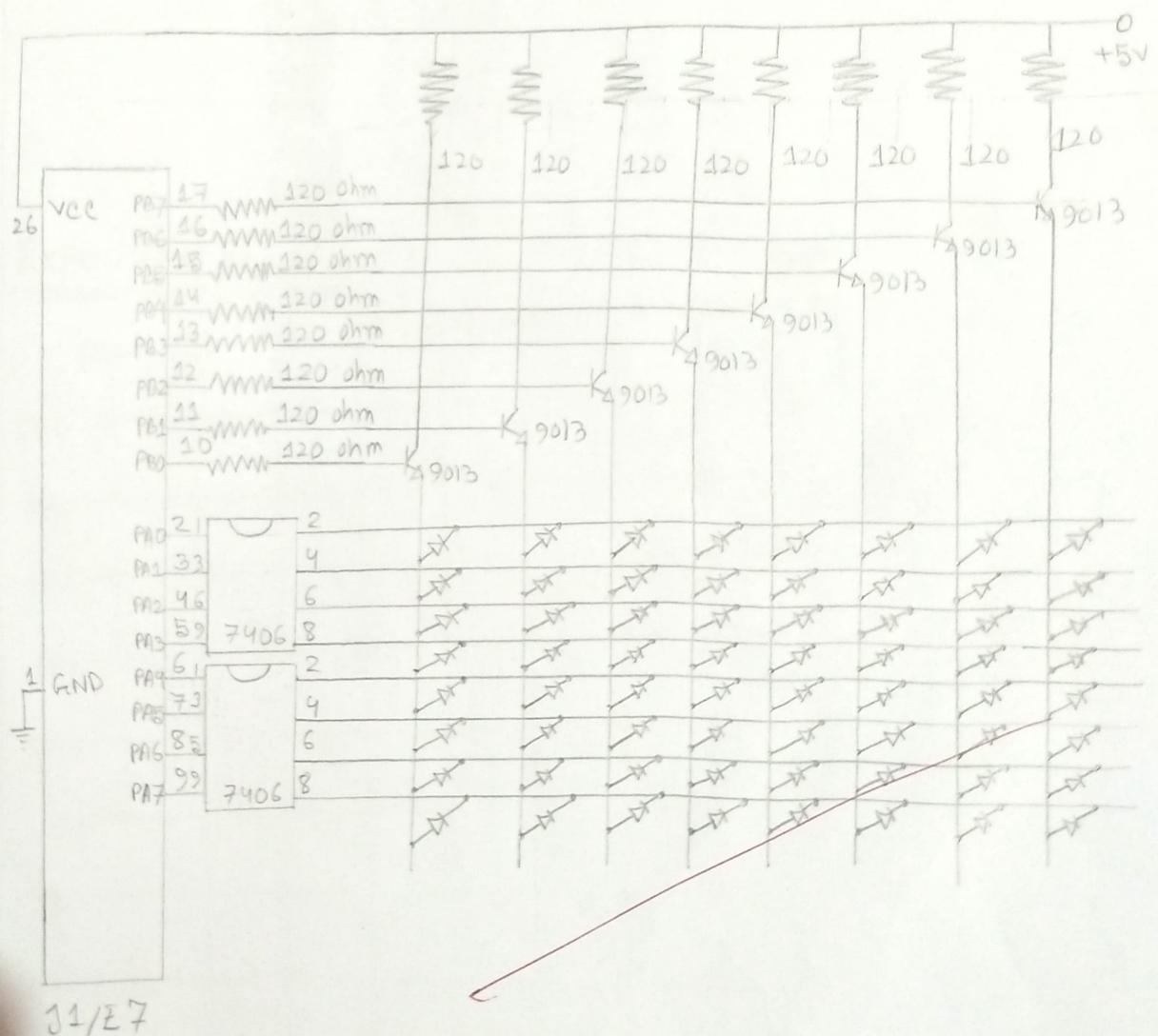


Experiment Name: Write and execute a program in a MTS-86 trainer board and Show LED MATRIX.

Apparatus: MTS-8688.C, bread board, power supply and multiplug.

Circuit Diagram:



Source Code:

```
MOV AL, 80
OUT 13, AL
MOV CX, 000
MOV AL, 01
MOV BX, 0500
OUT 11, AL
PUSH AX
ADD BX, CX
MOV AL, [BX]
OUT 10, AL
PUSH CX
MOV CX, 0080
NOP
LOOP 0419
POP CX
POP AX
ROL AL, 01
LOOP 0409
JMP 0404
```

Experiment Result:

	PB0	PB1	PB2	PB3	PB4	PB5	PB6	PB7
PA0	○							○
PA1	○	○						○
PA2	○		○					○
PA3	○			○				○
PA4	○				○			○
PA5	○					○		○
PA6	○						○	○
PA7	○							○

PA0	PA1	PA2	PA3	PA4	PA5	PA6	PA7	
1	1	1	1	1	1	1	1	1st scan
0	1	0	0	0	0	0	0	2nd scan
0	0	1	0	0	0	0	0	3rd scan
0	0	0	1	0	0	0	0	4th scan
0	0	0	0	1	0	0	0	5th scan
0	0	0	0	0	1	0	0	6th scan
0	0	0	0	0	0	1	0	7th scan
1	1	1	1	1	1	1	1	8th scan

FF, 40, 20, 10, 08, 04, 02, FF = "N"

By obtaining the binary information we get the data FF, 40, 20, 10, 08, 04, 02, FF. After Executing the result we can see the LED Matrix display the character "N".