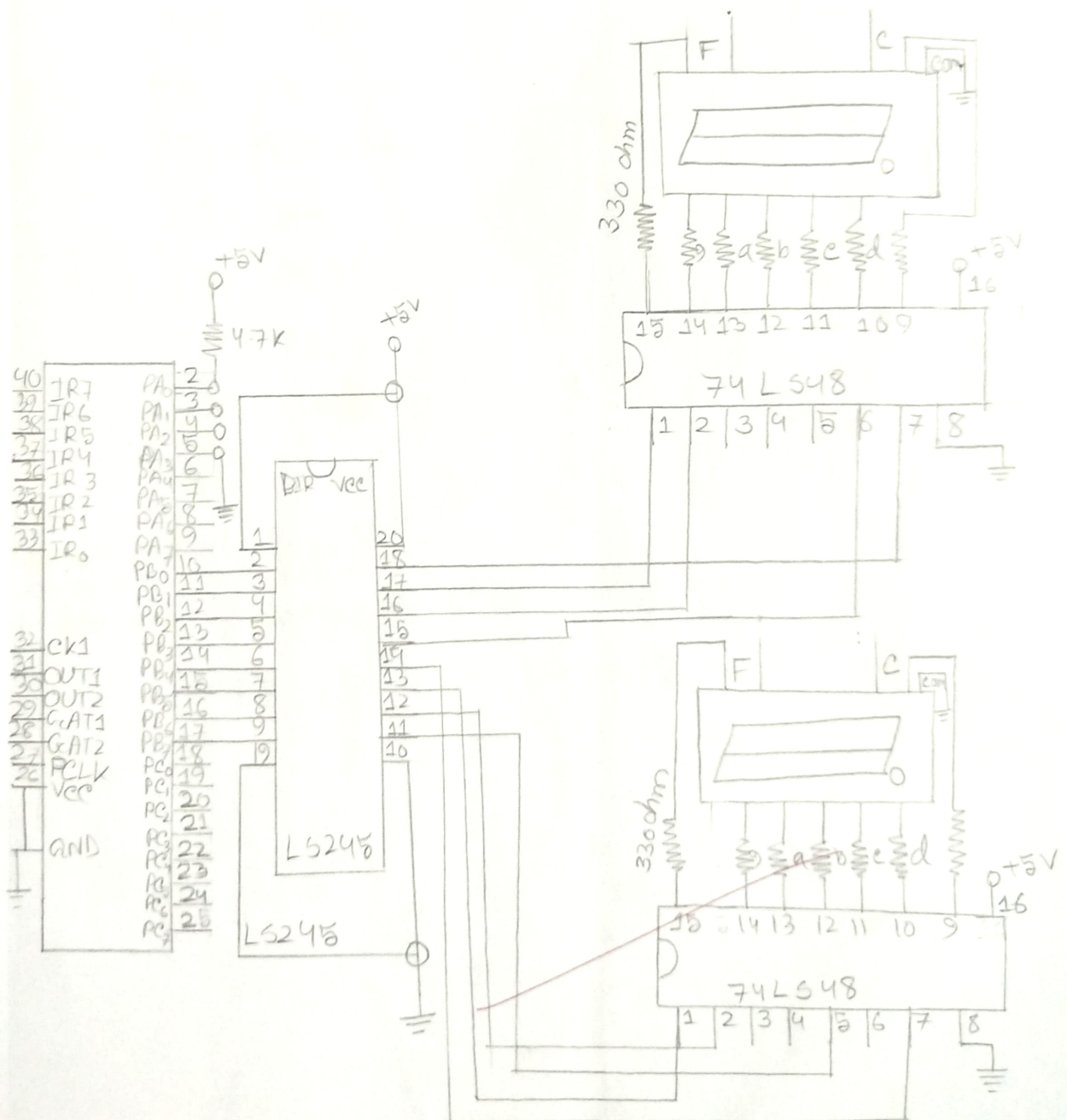


Experiment Name: Write and execute a machine language Program in MTS-86 trainer board and show hexadecimal values (0,1,2,3,...,f) On the LED and seven segment Display Simultaneously.

Apparatus: MTS-88.C, I/O Board-02, power supply and multiplug.

Circuit Diagram:



MTS-88.C I/O Board-02

### Source Code

```
XOR AX, AX
MOV AL, 90
OUT 13, AL
IN AL, 10
TEST AL, 01
JNE 0406
INC AH
MOV AL, AH
OUT 11, AL
MOV CX, 0010
MOV BX, 0500
DEC BX
JNE 0419
LOOP 0416
JMP 0406
HLT
```

### Experiment Result:

Switch 7 segment LED Display

Display 1

Display 2

0  
0  
0  
0  
0  
0  
0  
F

...

1  
2  
3  
4  
5  
6  
7  
F

