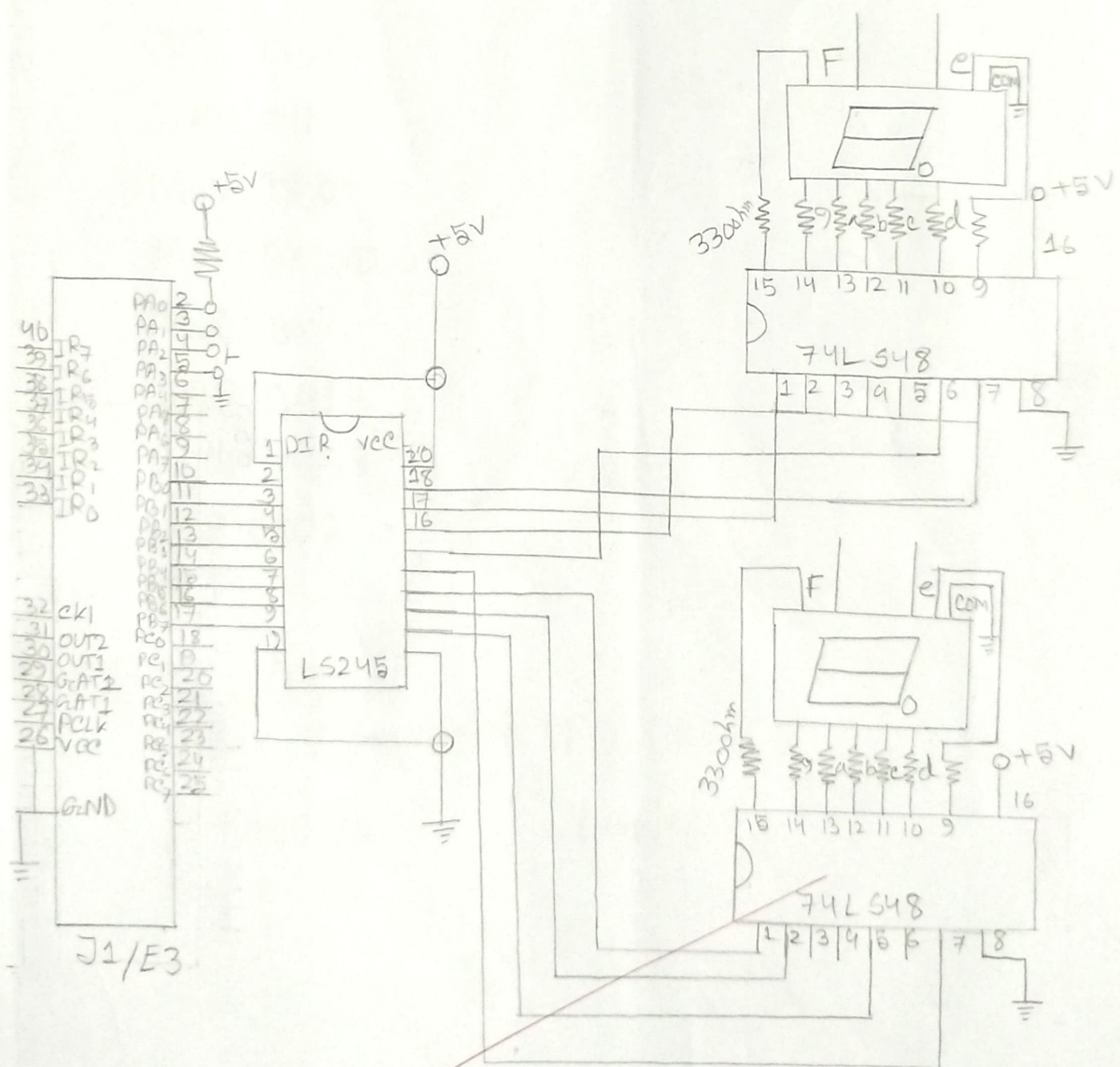Experiment Name: Write and execute a machine language Program in MTS-86 trainer board and show odd hexadecimal values (1, 3, 5,----, F) on the seven segment display

Apparatus: MTS-88.C, I/O Board-02, Power supply and multi-Plug.

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
INC AH
MOV CX, 0010
MOV BX, 0500
DEC BX
JNE 041B
LOOP 0418
JMP 0406
HLT
```

Experiment Result:

Switch 7 Segment LED Display

Display 1	Display 2
0	1
0	3
0	5
:	:
:	:
F	F