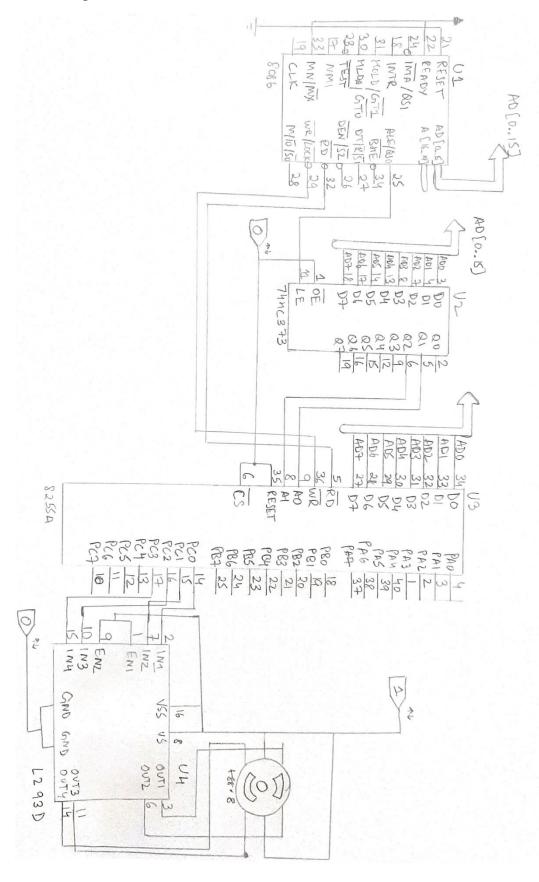# Lab 8

P1: To Interface a Stepper Motor to 8086 Microprocessor through 8255 Programmable Peripheral Controller using Proteus

Code:

```
DATA SEGMENT
    PORTA   EQU  00H
    PORTB   EQU  02H
    PORTC   EQU  04H
    PORT_CON EQU 06H
DATA ENDS
CODE SEGMENT
    MOV AX, DATA
    MOV DS, AX
    ORG 0000H
    START:
    MOV DX, PORT_CON
    MOV AL, 10000000B
    OUT DX, AL
    MOV SI, 0
    MOV DI, 0
LLO: MOV CX, 2FFFH
LLI: MOV AL, S2[DI]
    MOV DX, PORTC
    OUT DX, AL
    LOOP LLI
    INC DI
    CMP DI, 4
    JL LLO
    JMP START
    ORG 1000H
    S2 DB 1101B
       DB 1011B
       DB 0111B
       DB 1110B
CODE ENDS
END
```

Circuit Diagram: