ascendly language program to rotate in clock weise direction in half stepping.

8 2 5 5 is interfaced with 8086 in I/O mapped I/O Port C(PCo,PC1,PC2,PC3) is used to give pulse sequence to stepper motor. The 8 2 5 5 provides very less current which will not be able to drive stepper motor coils so each of the vinding of a stepper motor needs to be interfaced using high speed switching Dorlington transistors with man 1 A, 80 V roting with heat sink, with the output port of 82 5 5 Output the sequence incorrect order to have the desired direction to rotate the motor.

PROGRAM -

MODEL SMALL

.STACK 100

. DATA

PORTA EQUAFICOH; PORTA ADDRESS PORTB EQUAFICAH; PORTB ADDRESS PORTC EQUAFICHH; PORTC ADDRESS CWR EQUAFICH; CONTROL PORT ADDRESS PHASEC EQUOSH

PHASEB EQU OGH; SEQUENCE IN SERIES TO ROTATE MOTOR

PHASED EQU OCH; IN CLOCKWISE DIRECTION PHASEA EQU 09H

. CODE

START:

MOV AL, @DATA MOV DX, CTL OUT DX, AL
AGAIN:
MOV AL, PHASEC
MOV DX, PORTC
OUT DX, AL
MOV CX, OFFFFH
UP:
LOOP UP

MOV AL, PHASEB MOV DX, PORTC OUT DX, AL MOV CX, OFFFFH UP1: LOOP UPI

MOV AL, PHASED
MOV DX, PORTC
OUT DX, AL
MOV CX, OFFFFH
UP2:
LOOP UP2

MOVAL, PHASEA

MON DX, PORTC OUT DX, AL MON CX, OFFFFH UP3: LOOP UP3 JMP AGAIN; REPEATE OUTPUT SEQUENCE INT 03 H END START