Procedure:

P	rocedure:
	The PCIDIOT card is already connected to PCI slot of the PC
	Connect the FLAT cable coming out of the PCI card to the stepper
w	otor
d	river board
	Connect the stepper motor connection to the driver board. Proper
C	are should
Ь	e taken while doing connection as wrong connection may spoil the
6	ntire
Ь	oard. The connection slots have to be properly identified.
	Connect the power supply to the driver board
	Call any one of the Lab Instructors and ensure the connections ar
Co	orrect
ю	efore switching on the power supply
	Switch on the PC and Load Ubuntu Linux
•	Login as Micro and password as micro
	Load the terminal window in Ubuntu Linux
	Enter a command sudo virt-manager
	When it prompt for the enter the password micro
	Load windows xp through Virtual manager
	Load the command window
	Change the directory c:\micro
	Using an dos command chkdiot identify the port address of the
8	155
	Using edit command type the following program
	The Program shown below will rotate the stepper motor by 360
4	egrees i.e

Code:

	MODEL SMALL
	STACK 100h
	ATA0.
	CR EQU OC263H
	PA EQU Oc260H
	PB EQU Oc261H
1	PC EQU OCI61H
	Messagel 08 'DEMONSTRATION PROGRAM FOR STEPPER MOTOR',13,10,'\$
	Message2 08 13,10, The program is running,13,10,5
	COOE
	START:
	MOV AK,@VATA
	MOV DS,AX
	MOV AH,9h
	MOV DX, OFFSET Messagel
H	INT 21h
H	MOV AH,9h
H	MOV DX, OFFSET Message2
H	INT 21h
Н	MOV DK,CR
Н	MOV-AL,80h
H	OUT DKAL
H	MOV-BL,50
	begin: MOV AL,IIh
	instead of 11H
L	CALL OUT_A
	CALL DELAY
	MOV AL, 12h

CALL DELAY
MOV AL,44h
CALL OUT_A
CALL DELAY
MOV AL,88h
CAUL OUT_A
CALL DELAY
DEC BI
JNZ begin
MOV AH, 4CH
INT 2H
OUT_A: MOV OK, PA
OUT OK AL
RET
DELAY: MOV CX, OFFFH
02: MOV AX, OSFFH
OI: OEC AX
 742 DI
 DEC CK
JN2 02
RET
END START;

Assignment:

To rotate in other direction:

MOV AL,11h; To rotate in opposite direction, change the data as 88H instead of 11H MOV AL,22h; To rotate in opposite direction, change the data as 44H instead of 22H MOV AL,44h; To rotate in opposite direction, change the data as 22H instead of 44H MOV AL,88h; To rotate in opposite direction, change the data as 11H instead of 88H

To increase the number of rotations:

BL = 150 from BL = 50 for 3 rotations.

Similarly multiple of 50 for any number of rotations we want.

Video: Uploaded on class room