

Program - 1

Design a Stepper Motor interface to rotate the motor in Anti-clockwise direction by N steps. Introduce suitable delay between successive steps.

```
#include <stdio.h>
#include <reg51.h> // hexa decimal
char *data port = 0xe803; // data declaration
char *data porta = 0xe800;
char *data acc = 0x30; // accumulator
delay() // Delay between the rotation of the stepper motor
{
    int j;
    for(j=0; j<800; j++)
    {
        void main()
        {
            port = 0x80; // configure all the ports of 8255 as output port
            while(1)
            {
                acc = 0x11;
                porta = acc;
                delay();
                acc = 0x22;
                porta = acc;
                delay();
                acc = 0x44;
                porta = acc;
                delay();
            }
        }
    }
}
```

acc = 0x88;

porta = acc;

delay ();

}

}