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LAB-2

URBAN  
EDGE

2. Derive a Stepper Motor interface to rotate the motor in clockwise by N steps. Introduce suitable delay between successive steps.

```
#include <stdio.h>
#include <reg51.h>
char xdata port at 0xe803;
char xdata porta at 0xe800;
char idata acc at 0x30;
delay() // DELAY BETWEEN THE ROTATION OF THE STEPPER MOTOR
{
    int j;
    for (j=0; j<800; j++)
    {
    }
}
void main()
{
    port = 0x80; // CONFIGURE ALL THE PORT OF 8255 AS OUTPUT PORT

    while (1)
    {
        acc = 0x88;
        porta = acc;
        delay();
        acc = 0x44;
        porta = acc;
        delay();
        acc = 0x22;
        porta = acc;
        delay();
        acc = 0x11;
        porta = acc;
        delay();
    }
}
```