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8051 PROGRAMS

LAB-1

URBAN  
EDGE

1 Derive a Stepper motor interface to rotate the motor in Anti-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 PORTS OF 8255 AS  
OUTPUT PORT
```

```
while (1)
```

```
{
```

```
acc = 0x11;
```

```
porta = acc;
```

```
delay();
```

```
acc = 0x44;
```

```
porta = acc;
```

```
delay();
```

```
acc = 0x88;
```

```
porta = acc;
```

```
delay();
```

```
}
```

```
}
```