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

A. WAVE DRIVE :-

```c
#include <org
#include <reg 52.h>
#include <stdio.h>
void delay (int);
void main ( ){
do {
P2 = 0x01;
delay (1000);
P2 = 0x02;
delay (1000);
P2 = 0x04;
delay (1000);
P2 = 0x08;
delay (1000);
}
while (1);
}
void delay (int k) {
int i, j;
for( i = 0; i < k; i++) {
for( j = 0; j < 100; j++) {
}}}
```

FULL DRIVE :

```c
#include <reg52.h>
#include <stdio.h>
void delay(int);
void main(){
do{
P2 = 0x03;
delay(1000);
P2 = 0x06;
delay(1000);
P2 = 0x01; P2 = 0x0c;
delay(1000);
P2 = 0x09;
delay(1000);
}
while(1);
}

void delay(int k){
int i,j;
for(i=0; i<5k; i++){
for(j=0; j<100; j++){
}}}
```

HALF DRIVE :-

```c
#include <reg52.h>
#include <stdio.h>
void delay(int);
void main() {
do {
P2=0x01;
delay(1000);
P2 = 0x03;
delay(1000);
P2 = 0x02;
delay(1000);
P2 = 0x06;
delay(1000);
P2 = 0x04;
delay(1000);
P2 = 0x0C;
delay(1000);
P2 = 0x08;
delay(1000);
P2 = 0x09;
delay(1000);
}
while(1);
}
void delay(int k) {
int j,i;
for(i=0; i<k; i++) {
for(j=0; j<100; j++) {
} } }
```