PROGRAM

```
#define F_CPU 8000000UL /* Define CPU Frequency 8MHz */
#include /* Include AVR std. library file */
 #include /* Include delay header file */
 {
 int period;
 DDRD = 0x0F; /* Make PORTD lower pins as output */
 Period = 100; /* Set period in between two steps */
 While (1) {
 /* Rotate Stepper Motor clockwise with Half step sequence */
For (int i=0; i<12;i++)
{
 PORTD = 0x09;
 _delay_ms (period);
PORTD = 0x08;
 _delay_ms (period);
 PORTD = 0x0C;
 _delay_ms (period);
 PORTD = 0x04;
 _delay_ms (period);
 PORTD = 0x06;
 _delay_ms (period);
 PORTD = 0x02;
_delay_ms (period);
 PORTD = 0x03;
 _delay_ms (period);
 PORTD = 0x01;
```

```
_delay_ms (period);
 }
 PORTD = 0x09; /* Last step to initial position */
 _delay_ms (period);
 _delay_ms (1000); /* Anticlockwise with Full step sequence */
for(int i=0;i<12;i++)
{
PORTD = 0x09;
 _delay_ms (period);
 PORTD = 0x03;
 _delay_ms (period);
 PORTD = 0x06;
_delay_ms (period);
 PORTD = 0x0C;
 _delay_ms (period);
 } PORTD = 0x09;
_delay_ms(period);
 _delay_ms(1000);
 }
- }
```