

WAVE DRIVE :-

```
#include <reg52.h>
```

```
#include <stdio.h>
```

```
void delay(int);
```

```
void main()
```

```
{
```

```
do  
{
```

```
    P2 = 0x01;    // 0001
```

```
    delay(1000);
```

```
    P2 = 0x02;    // 0010
```

```
    delay(1000);
```

```
    P2 = 0x04;    // 0100
```

```
    delay(1000);
```

```
    P2 = 0x08;    // 1000
```

```
    delay(1000);
```

```
}
```

```
while(1);
```

```
}
```

```
void delay(int k)
```

```
{
```

```
    int i, j;
```

```
    for (i=0; i<k; i++)
```

```
    {
```

```
        for (j=0; j<100; j++)
```

```
        { }
```

```
    }
```

```
}
```

speed is controlled by the delay.

FULL DRIVE:-

```
#include <reg52.h>
#include <stdio.h>
void delay(int);
void main()
```

```
{
do {
P2 = 0x03; // 0011,
delay(1000);
P2 = 0x06; // 0110
delay(1000);
P2 = 0x0C; // 1100
delay(1000);
P2 = 0x09; // 1001
delay(1000);
}
```

```
while(1);
```

```
{
void delay(int k)
```

```
{
int i, j;
for (i=0; i<k; i++)
```

```
{
for (j=0; j<100; j++)
```

```
{
}
```


HALF DRIVE:-

```
#include <reg52.h>
#include <stdio.h>
void delay(int);
void main()
{
    do
    {
        P2 = 0x01; // 0001
        delay(1000);
        P2 = 0x03; // 0011
        delay(1000);
        P2 = 0x02; // 0010
        delay(1000);
        P2 = 0x06; // 0110
        delay(1000);
        P2 = 0x04; // 0100
        delay(1000);
        P2 = 0x0C; // 1100
        delay(1000);
        P2 = 0x08; // 1000
        delay(1000);
        P2 = 0x09; // 1001
        delay(1000);
    }
    while(1);
}

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