

WAVE DRIVE:-

#include <reg 52.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++)

{

}

FULL DRIVE:-

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

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

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

```
void main ();
```

```
{
```

```
do {
```

```
P2 = 0x03 ; //0011
```

```
delay (1000);
```

```
P2 = 0x06 ; //0100
```

```
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++)
        {
            ;
        }
    }
}
```