

Program: 4 7-segment display interface (BAVGA LOPB).

```
#include <stdio.h>
#include <reg 51.h>
```

```
char xdata CommW = 0x80;
char xdata portB = 0x80;
char xdata portC = 0x80;
char port[20] = {0x16, 0x16, 0x16, 0x16,
                 0x83, 0x88, 0x88, 0x82,
                 0x88, 0x87, 0x80, 0x8F,
                 0x86}, i;
```

```
delay () {
```

```
    long u;
```

```
    for(u=0; u<4000; u++) {
```

```
}
```

```
void main () {
```

```
    int d, b, j, m;
```

```
    unsigned char k;
```

```
    CommW = 0x80;
```

```
    do {
```

```
        i = 0;
```

```
        for (d=0; d<1; d++) {
```

```
            for (b=13; b>0; b--) {
```

```
                delay ();
```

```
                k = portC[i];
```

```
                for (j=0; j<8; j++) {
```

```
                    m = k;
```

```
                    k = k <> 0x80;
```

```
                    if (k == 0x00)
```

```
                        portB = 0x00;
```

```
                    else
```

```
                        portB = 0x01;
```

```
                }
```


Port C = 0x01;

Port C = 0x00;

k = m;

k = 1;

}

Delay (1);

}

while (1);