

4] Display messages BANGALORE in rolling fashion on a 7-segment display interface for a suitable period of time.

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

```
#include <reg51.h>
```

```
char xdata commW _at_ 0xc803;
```

```
char xdata portB _at_ 0xc801;
```

```
char xdata portC _at_ 0xc802;
```

```
char port[20] = {0xff, 0xff, 0xff, 0xff,  
0x83, 0x88, 0xc8, 0x82, 0x88, 0xc7, 0xc0,  
0xaf, 0x86}, i;
```

```
delay()
```

```
{
```

```
long u;
```

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

```
}
```

```
void main()
```

```
{
```

```
int d, b, i, m;
```

```
unsigned char k;
```

```
commW = 0x80;
```

```
do
```

```
{
```

```
    i = 0;
```

```

for (d=0; d<1; d++)
{
    for (b=13; b>0; b--)
    {
        delay();
        k = port[i++];
        for (j=0; j<8; j++)
        {
            m = k;
            K = K << 0x80;
            if (k==00)
                port B = 0x200;
            else
                port B = 0x01;
        }
        port C = 0x01;
        port C = 0x00;
        k = m;
        K <<= 1;
    }
    delay();
}
while(1);
}

```

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