

37 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,  
0xc7, 0xc0, 0xaf, 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 = port[i++];
```

```
      for(j=0; j<2; j++) {
```

```
        m = k;
```

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

```
      }
```

```
      if(k == 00)
```

```
        portB = 0x00;
```

```
      else
```

```
        portB = 0x01;
```

```
    }
```


portC = 0x01;

portC = 0x00;

k = m;

~~for~~ .

k <= 1;

}

}

delay();

}

}

while(1);

}