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## LAB PROGRAM - 14

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

A. #include <stdio.h>  
#include <reg51.h>  
char xdata CommW\_at = 0xe803;  
char xdata portB\_at = 0xe807;  
char xdata portC\_at = 0xe802;  
char port[20] = { 0xff, 0xff, 0xff, 0xff, 0x83, 0x88, 0xC8, 0x82,  
0x88, 0xCF, 0xC0, 0xAF, 0x86 }; ;

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--)

{

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```
delay();  
k = port[i++];  
for (j = 0; j < 8; j++)  
{  
    m = k;  
    k = k & 0x80;  
    {  
        if (k == 00)  
            portB = 0x00;  
        else  
            portB = 0x01;  
    }  
    portC = 0x01;  
    portC = 0x00;  
    k = m;  
    k <<= 1;  
}  
}  
}  
delay();  
}  
while (1);  
}
```