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

Soln:-
```
# include <stdio.h>
# include <reg51.h>
char data CommW_at_0xe803;
char data portB_at_0xe801;
char data portC_at_0xe802;
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 b, d, j, m;
    unsigned char k;
    CommW = 0x80;
    do
    {
        i=0;
        for (d=0; d<1; d++)
        {
            for (b=13; b>0; b--)
```
①

```c
{
    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);
}
```

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②