PB0 → D8

74 25164
CLK   CLR

D8 7425164
CLK   CLR

D8 7425164
CLK   CLR

D8 7425164
CLR   CLR

PC0

Program - 4

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

```c
# include <stdio.h>
# include <reg51.h>
char xdata comm W _ at _ 0xe803;
char x data port B _ at _ 0xe 801;
char x data port C _ at _ 0xe 802;
char port [20] = {0xf f, 0xff, 0xff, 0xff,
                   0x83, 0x83, 0xc8, 0x 82, 0x88,
                   0xc7, 0xc0, 0xAF, 0x866};

delay ()
{
  long u;
  for (u=0; u<4000; u++);
}

void main ()
{
  int d, b, j, m;
  unsigned char K;
  comm W = 0x80;
  do
  {
    i=0;
    for ( d=0; d< 1; d++)
    {
      for ( b=13; b>0; b--)
      {
        delay ();
        k = port [i++];
```

```c
    for (j=0; j<8; j++)
    {
        m = k;
        k = k & 0x80;
        {
            if (k == 00)
                port B = 0x00;
            else
                port B = 0x01;
        }
        port c = 0x01;
        port c = 0x00;
        k = m;
        k <<= 1;
    }
}

    delay();
}
}

    while (1);
}
```