21/12/20

Program -3

d→ Display FIRE & HELP alternatively.

```c
#include <stdio.h>
#include <reg 51.h>
char xdata commnl _at_ 0xe803;
char xdata port B _at_ 0xe801;
char xdata port C _at_ 0xe802;
char port [20] = {0x8e, 0xf9, 0xde, 0x86,
                  0xff, 0xff, 0xff, 0xff, 0x89,
                  0x86, 0xc7, 0x8e3, i;
delay () {
    long u;
    for (u=0; u<8000; u++); }
void main () {
    int d, l, j, m;
    unsigned char K;
    commnl = 0x80;
    do {   i = 0;
        for (d=0; d<3; d++) {
            for (l=0; l<4; l++) {
                K = port [i++];
                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);
}
```

Program - 4

Q-> WAP to display Bangalore in rolling way.

```c
#include < stdio.h>
#include < reg 51.h>
char x data CommW _at_ 0xe803;
char x data port B _at_ 0xe801;
char x data port C _at_ 0xe802;
char port [20] = { 0xff, 0xff, 0xff, 0xff,
                   0x83, 0x88, 0x88, 0x82,
                   0x88, 0xc7, 0xc0, 0xaf,
                   0x86 }, i;
```

```
delay () {
    long u;
    for ( u = 0; u < 8000; u++);
}

void main () {
    int d, b, j, m;
    unsigned char k;
    Comm W = 0x80;
    do {  i = 0;
        for ( d = 0; d < 5; d++) {
            for (b = 0; b < 13; b++) {
                delay ();
                K = port [i++];
                for ( j = 0; j < 8; j++) {
                    m = k;
                    K = K & 0x80;
                    if (k == 00)
                        port b = 0 x 00;
                    else
                        port b = 0 x 01;
                }
                port C = 0 x 01;
                port C = 0 x 00;
                K = m;
                K <<= 1;
            }
        }
    }
}
```

```
        delay ();
    }
} while (1);
}
```