```
Microcontroller (8051)
#include < Reg 51. h >
                                               [Clock-wise]
# include L Stdio. h>
void delay (int val) {
     int i, j;
     for (i=0; i × val; i++) {
         for(j=0;j100;j++)
void main () {
    Jo ?
      P2 = 0x03;
      delay (1000);
      P2 = 0 × 06;
      delay (1000):
     P2 = 0 × 0C ;
     delay (1000);
     P2 = 0 × 09;
     delay(1000);
   3 while (1);
                                              Anti-clock wise]
#include astdio.h>
#include Loneg51.h>
void delay () ?
     int i, j;
     for (i= 6; i< 1000; i++)?
          100 (j=0; j< 100; j++) {
```

```
void main()?

P2 = 0 × 09;

delay();

P2 = 0 × 06;

delay();

P2 = 0 × 06;

delay();

P2 = 0 × 03;

delay();

3 while(i);

3
```

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```
Lab program -3:
 # include 46 tolo, h>
# include a negsi. h>
 void delay ()?
                             long u;
                             pr(u=0;u<=8000;u+)?
  3
 void main () {
                     char xdata CommW-at-0xe803;
                     char xdata parts _ at _ 0 x e801;
                    chan xdata partc_at_ oxe802;
                    chase part[**] = { 0 x8e , 0 x fg , 0 x de , 0 x 86 , 0 x ff , 0 x
                                                                                                        0 x89,0x86,0xC7,0x8c3
                    int i, j, d, b; my
                    char k, n; commw= 0x80;
                    do &
                                 (d=0; d(3; d++)?
                                                            par(b=0; b< $; b++){
                                                                                     k = port [19;
                                                                                     for (j=0; j48; j++) {
                                                                                                             mak!
                                                                                                             K = K& 0 × 80"
                                                                                                             il( k = + 00) {
                                                                                                                           PATB =000 :
                                                                                                              3else?
                                                                                                                          port8 = 0 x o1;
                                                                                                               patc = 0x01;
                                                                                                                patc = 0x00;
```

```
k <<= 1 ;
 delay ();
3 while (1);
To display "BANGALORE" in sequence
                                11 316
void main () {
  char part[] = {0x80,0x88,
                                 ragonno
             0×AB, 0×90,
                               haledcba
             0×88,0×C7,
                                 =10000110
             OXAD , OXCE,
                              T=11001110
             0x863 ;
                              0 = 10 100011
 inti,j,d;
                               L = 11000111
 chase k, m;
                               A = 10001000
 dos
                             9 = 10010000
  i= 8;
                              no = 1 0 1 0 1 0 1 1
   for(d=0;d<10;d++){
                               A = 10001000
       k = post[in];
                               8=10000000
       |di(j=0;j<2;j++) {
          m - k :
          K = K& 0 × 80;
          il(k==00) {
            port8 = 0 × 00;
          Jelse &
            patB = 0 × 01;
          patc = 0x01;
          pettc . 0x00;
          k = m ;
```

lc = m

kecal:

```
3 delay ();
 delay();
3 while (1);
```