POOJA-K

8051

1 BM19 (81/1

Lab program 11 · Drive a stepper motor interface to notate the unotor un Anti-clockcoise direction by M steps Antroduce suitable delay between successive steps # includes idio. h> # include < segsl. h > char xdata port at 0xe803; char xdata porta at 0xe800; char idataacc_at_ox30; delay () for(j=0;j<800;j+t) () rio main () port=0x80. while (1) acc = 0x 11. porta = acc; delay(); acc = 0 + 22; porta = acc;

delay();

acc = 0x44;

DATE: PAGE: porta = acc

POOTA-K 18M19(511) Lab program 12 Drive a htepper Motor interface to rotate the motor in clockwise by N steps. Introduce suitable delay between successive steps. #include<stdio.h> #include< reg51.h> charxdata port_at_0xe803; charxdata porta at - 0x e800; charidataacc-at-0x30; for (j=0;j<800;j++) void main () port = 0480; (obile(1) OCC = 0 x88. porta = acc; delay (); acc = 0x44; porta : acc; delay ();

DATI acc = 0 x 22. porta-acc;

delay();

acc= ox11:

porta-acc;

delay();

delay();

DATE: PAGE: POOJA-K 8051 1BM19CS111 Las program 13 Display menages FIRE and HELP alternatively with flickering effects on a 7-segment display interface for a suitable period of time. Ensure a flashing rate that makes it easy to read both the messages. #includesstdio.n> #includer reg 51. h> chaxxdataCommW_at_0xe803; charxdataportB-at-oxe801; charx dataport (at 0x e802; char port[20]: \ 0x8c, 0xfq, 0xde, 0x86, 0x11, 0xff, 0x8q, 0x86, 0xc7, 0x8c?, i; delay() long u; for (u=0; u < 8000; u+t); void main() int a, b . f. mi; unsigned chark;

COWWW = 0x80;

PAGE:

POOJA-17 18M19CSIL 8051 Lab program 14 Display messages BANGALORF in solling fashion on a 7 - segment display interface for a suitable period of time. Hincludexstdio. h> #Include < negs 1.h> charxdata (ommw-at-0xe803; charxdataport B-at oxesol; charxdata port (-at 0x c802; char port[20] = \0xff, 0xff, 0xff, 0xff, 0x83, 0x88, 0x18, 0x88,0x08,0x82,0x88,0xc7,0xc0,0xAF for (u=0; u < 4000; u++); void main () Int d, b, j, m; unsigned chark; COMMN= OX80; for (d=0;0<1;0++)

DATE: for Cb = 13; b>0; b--) delay (); for (j=0; j<8; j++) R-R40X80; if(k==00) port B = 0x00; port B= 0 xol; port = oxol; port C = 0 + 00; R < C = 1; delay () while (1);

POOJA-K 8051 13MI9(SIL) Lab Program 15 Program to demo the elevator interface. Hindude stdio. hz #included night. h) unsigned char x data Command Word- at - 0xe803; einsigned char x data Port A_ at_0x e800; rensigned charxdataPort B at oxe801; Unsigned char xdataPresentFloor, Requested Floor, Step=0x/0; unsigned long x data (ount, i; Delaye). for (count =0; (ount <= 4500; (ount++); Pent() Steps Step & Oxof; PortA - Step; Step = Stepl 0x go; Port A = step; Clonb() witch (Requested floor) can oxed: while (type 0 x / 3)

```
GoDown ()
 switch (Requested Floor)
  case oxod: while(step>0xf3)
             8tep--;
             Port A = Step;
              Delay ();
              Raut ()
              break; 1911-18 200
 case oxob: while (step > oxf6)
            Step -- ;
            Port A: Step;
           Delayo;
           Reset();
           break;
case oxoe; while (Strp> oxfo) {
           8tep -- ;
           Port A= Step;
            Delay ();
```

Resct(); break;

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