Name: Sakshi. P. Khandoba USN : 1BM19CS139 papergrid Section : 30 Date: / / Batch: 2 Drive a Steppen motor interface to rotate the motor in Anti-Clackwise by N steps Introduce suitable delay between successive steps Wave drive program: [Anti-Clockwise] #include < stdio.h> # include < reg 51.h> char xdata porta_at_ 0xe803; char xdata porta_at_ 0xe800; char idata acc -at- 0x30; delay() for (j=0; j<800; j++) void main () port = 0x80; while (1) acc = OxII;porta = acc; delay (); acc = 0x22;porta = acc; delay(); acc = 0x44;porta = acc; delay(); acc = 0x88;

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	porta = acc;	
	(delay ();	
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	delay();	
	200 - 200 acc	
	· Chrosol	
	1130 = 200	

USN : 18M19CS139 papergrid Section : 30 Date: / / Batch: 2 2. Drive a Stepper motor interface to rotate the motor in clockwise by N steps. Introduce suitable delay between successive steps Wave drive program: [Clockwise] # include < stdio.h> margail time # include < reg 51.h>
char xdata port -at 0xe803; char xdata porta - at - 0xe800; char idata acc at _ 0x30; delay() for (j=0; j<800; j+t) void main () port = 0x80; while (1) $acc = 0 \times 88$: porta = acc; delay(); acc = 0x44; porta = acc; delay(); $acc = 0 \times 22;$ porta = exacc; acc = Ox 11;

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papergrid Batch: 2 Section: 3C 3. Display messages FIRE and HELP alternately 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. # include < stdio.h> : more it fine # include < reg51.h> char xdata Commw _at Oxe 803; char x data port B _at_ 0xe801; char x data portc _at_ Oxe 802; char port[20]= & Ox8e, Oxfq, Oxde, Ox86, Oxff, Oxff, Oxff, Oxff, Ox89, Ox86, Oxc7, Ox8c3, i; delay() long U; for (v = 0; U < 8000; U++) return 0; void main () unsigned char k; Commw = 0x80; ab i=0; for (d=0; d<3; d++) for (b = 0; b<4; b++)

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poiles ai =aki=port[it+];
   and of for (j=0; j<8; j+t)
              m=k;
              k = k& 0x80;
              if (k==00)
              port B = 0x00;
              else
              portB = 0x01;
              port = 0x01;
              port C = 0x00;
              k=m;
              k << = 1;
        delay ();
 while (1);
```

USN : 1BM19CS139 papergrid Section: 30 Date: Batch: 2 4. Display message: BANGALORE in rolling Jashion on a 7-segment display interface for a suitable period of time. #include < stdio. h> = # include < reg 51.h> char xdata CommW = at _ 0xe803; char xdata parts _at_ 0xe801; char xdata port Colo_at_ Oxe 802; char port[20] = { Oxff, Oxff, Oxff, Oxff, 0x83, 0x88, 0xc8, 0x82, 0x88, 0xc7, 0xc0, Oxaf, Ox867, 1, delay () :00x0 = 0 troo for (u=0; U<4000; U++); void main() unsigned chark; Comm 6 = 0x80; do delay(); k = port[i++]; for(j=0; j < 8; j++)

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and 1 (++ tou	0):0024=>ktgg=	11:0 = An10	Porle	
	}	•	,	
	7		Reset ()	
	delay();		1	
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3		24.42 = 5	Alrol	
whi	le(1); (03.0)	= Step 1	0.910	
}		= Step;	A typi	
		(0	moutes (
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	(Floor)	(Reguest	blive	
(8.3)	: while (Step 5 Ox	buse sen	3	
			1	
	Stepit;			
	10+6 = A+429			
	Delay();			
	Kesetti			
	hvenk;		-	

papergrid Section: 3c Date: / / Batch: 2 5. Program to demo the elevator interface. # include < stdio. h > #include < reg 51. h> ? unsigned char xdata Commandword _at_ 0xe803; unsigned char xdata PortA _at_ 0xe800; unsigned char xdata Port B_at_ 0xe801; unsigned char xdata Present Floor, Requested Floor, Step = Oxfo; Unsigned long x data Count ;; Delay() :00x0 = 04x00 for (Count = 0; Count < = 4500; Count +t); return 0; Reset() Step = Step & Oxof; PortA = Step; Step = Step | Oxfo; (1) olive Port A = Step; return 0; (TOUP() switch (Requested Floor) case OxOd: while (Step < Oxf3) Steptt; PortA = Step; Delay(); Reset(); break;

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1 1	Date: / /
	case (OxOb: while (Step < Oxf6)
	2 Delaulis
	Steptt;
	PortA = Step;
	Delay();
	(07x0 < gets) slide (x0x)
	Reset();
	break;
	case 10x07: while (Step < 0xf9)
	J Delay();
	Step++;
	PortA = Step;
	: Nogra Delay();
	S garden
	Keset ();
	break; () nion his
	return 0;
	(SRK) = live(Ubacomma)
	Gro. Down()
	Present Floor = (xCe;
	Switch (Requested Floor)
-	2
. 4	case OxOd: while (Step > Oxf3)
	Reguestedflor 1 = Reguested Flour B. Oxl
(- 1/2 +	Six toxo = 1 root 1 to Step-9; 7:
	Delay ();
	Reset();
	break;
	case Oxob: while (Step > Oxf6)
	Present Floter : Repursbaltor:
	Step; S
	· · · · · · · · · · · · · · · · · · ·
. 11	

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  (2720 > 1942) slida : dPort A = Step;
                    Delay();
                  break;
      case OxOe: while (Step > Oxfo)
               Step --;
    PARO > get2) with : ToPortA==oStep;
                     Delay();
     igota = Atro9 Reset();
        : ( )notsq. break;
Void main() slosve
   Command Word = 0x82;
   PortA = Oxfo;
   Presentfloor = Oxoe;
   while(1) (rooted Floor) Notion
   Requestedfloor = PortB; 200
      Requestedfloor = Requested Floor & OxOf;
      if (Requested Floor != Oxof &&
    Requested floor != Presentfloor)
         if (Requested floor < Present floor)
         : ( It GOUP ();
   Par > (3) a muo Corolle (Step > Cxfc
         Present Floor = Requested Floor;
      Requested Floor = Port B;
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