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Springer

Taylor&Francis

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CNKI

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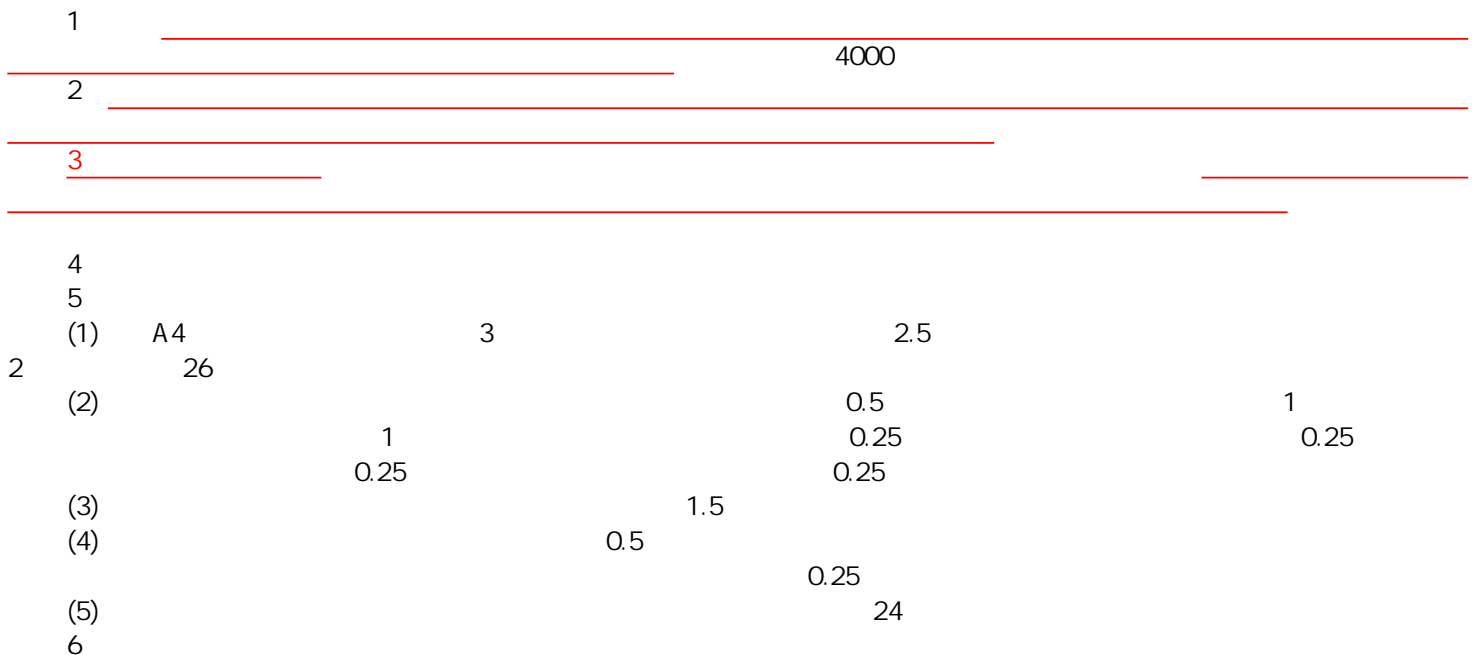
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		https://wenku.baidu.com	- 2018
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3	153 2	(1)	3.6% 208
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5	1502697204_	-	- 2019-06-02	3.5%	204
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7	14031023_	-	- 2018-05-10	2.4%	139
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9	pid	.doc	- 2016 http://max.book118.c	0.8%	49
10	[]	111	- 2012 http://www.docin.com	0.8%	45
11	51	-	- 2010-12-15	0.6%	37



51

3171



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()	2
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1.	4
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	6
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5.	9
6.	9
7.	10
	11
	11
	13
51		

AT89C51 LED AT89C51 c

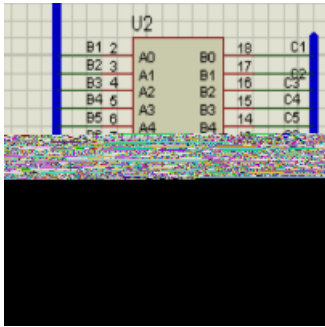
1
1
B
V
A
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2

AT89C51

B

2

()
1)



3



3 LED

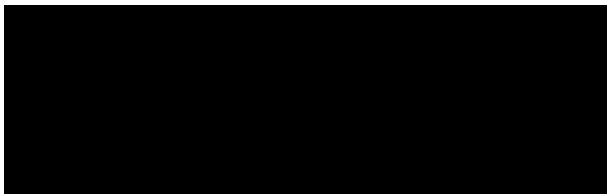
A/B

20s

5s

2 LCD
LCD

4



4 LCD

1

1	Vss		9	D2	I/O
2	VDD		10	D3	I/O
3	VL		11	D4	I/O
4	RS	/ HL	12	D5	I/O
5	R/W	HL	13	D6	I/O
6	E		14	D7	I/O
7	DO	I/O	15	BLA	
8	D1	I/O	16	BLLK	

1 Vss 9 D2 I/O
 2 VDD 10 D3 I/O
 3 VL 11 D4 I/O
 4 RS / HL 12 D5 I/O
 5 R/W HL 13 D6 I/O
 6 E 14 D7 I/O
 7 DO I/O 15 BLA
 8 D1 I/O 16 BLLK

1.

```

1          LED          A          B
2          A          B
3          ,A          20s,20s  A          5s          20s  B          20s  20s          5s

4 LCD          A\B
5          A\B
2.
1          5

```

```

5
2          6

```

AT89C51

AT89C51

Key_int0=1

Key_int1=1

B 5s

A 5s

A 5s

B

A B

20s

A

5s

A

20s

B A

20s

B

5s

B

20s

kuang

A

B

6

2.

```
void main(void)
```

```
{ uchar dis_time;
```

```
void inter0(void);
```

```
void inter1(void);
```

```
t_init();
```

```
int_init();
```

```
Initlcd();
```

```
while(1)
```

```
{
```

```
Dis_str(0,0,"A_ROAD_RED");
```

```
Dis_str(1,0,"B_ROAD_GRE");
```

```
P1=0;
```

```
for(dis_time=20;dis_time>0;dis_time--)
```

```
{
```

```
a_red=1;
```

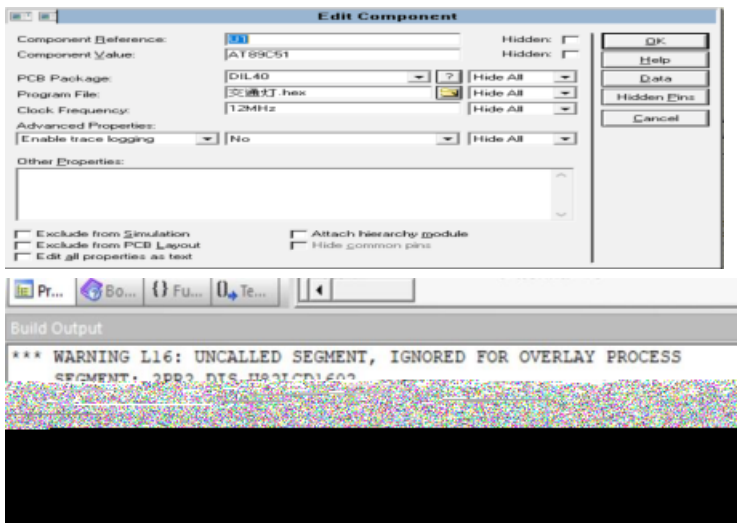
```
b_green=1;
```

```
display(12,dis_time,12,dis_time);
delay1s(10);
}
```

- 1.
- 1) _____ pcb
- 2) _____
- 3
- 4
- 2. _____

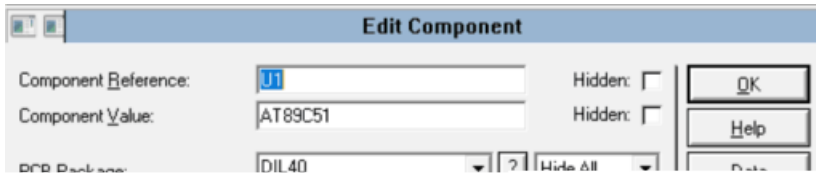
- 1
- 2
- 3
- 4
- 3.

- 4. _____

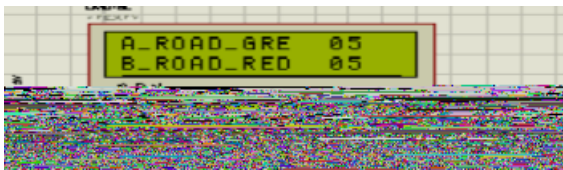
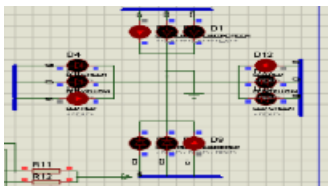
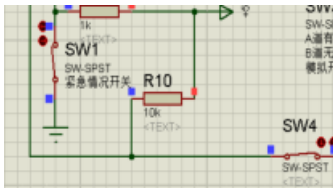
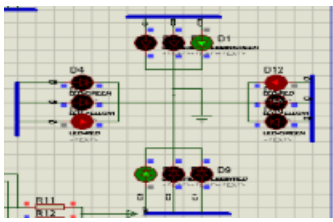
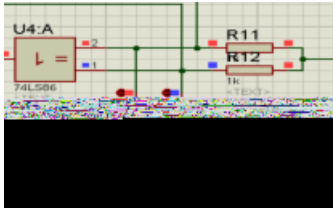
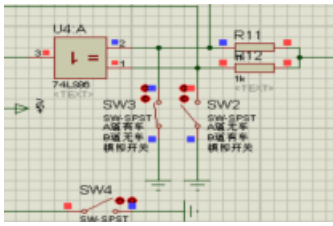
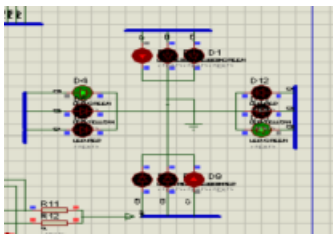


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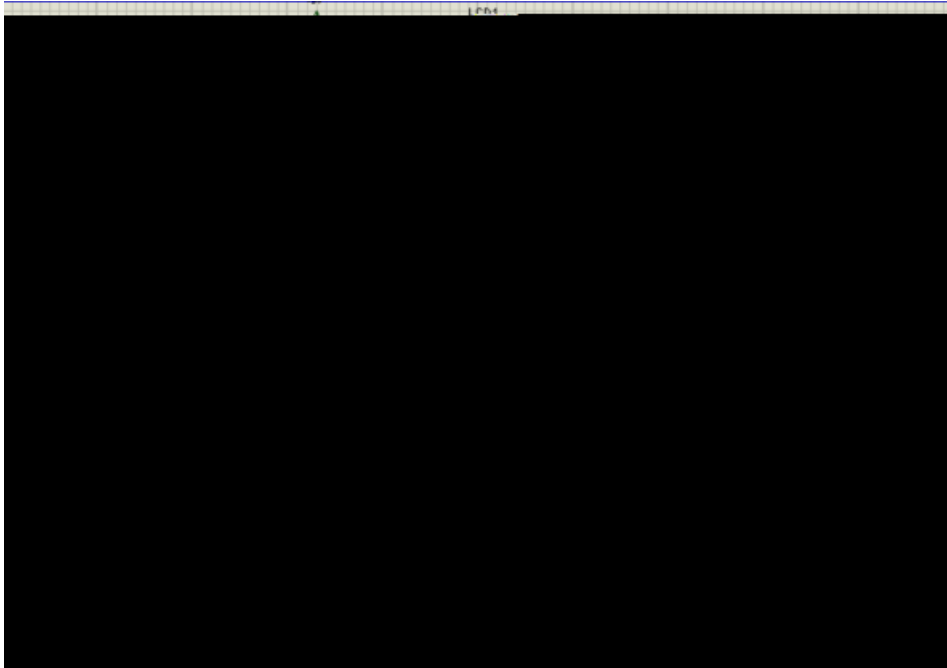


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- 5.



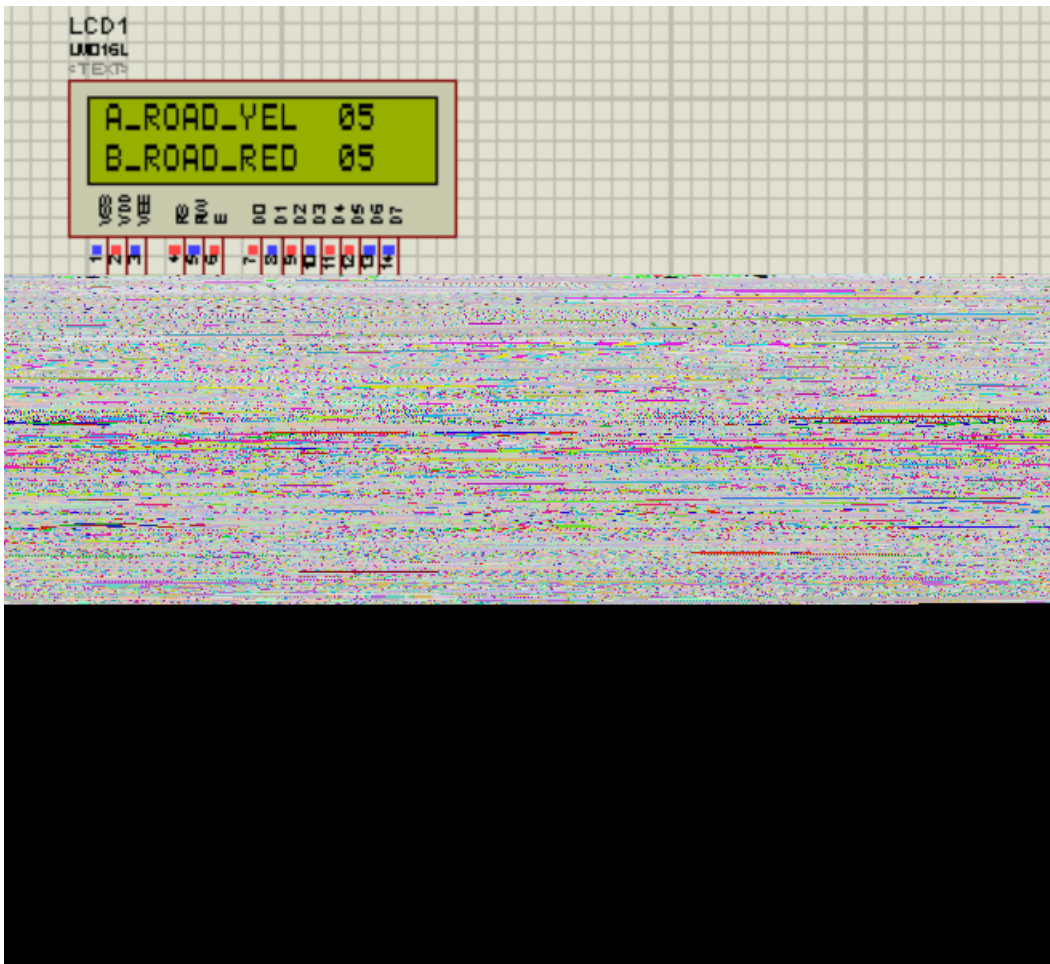
9

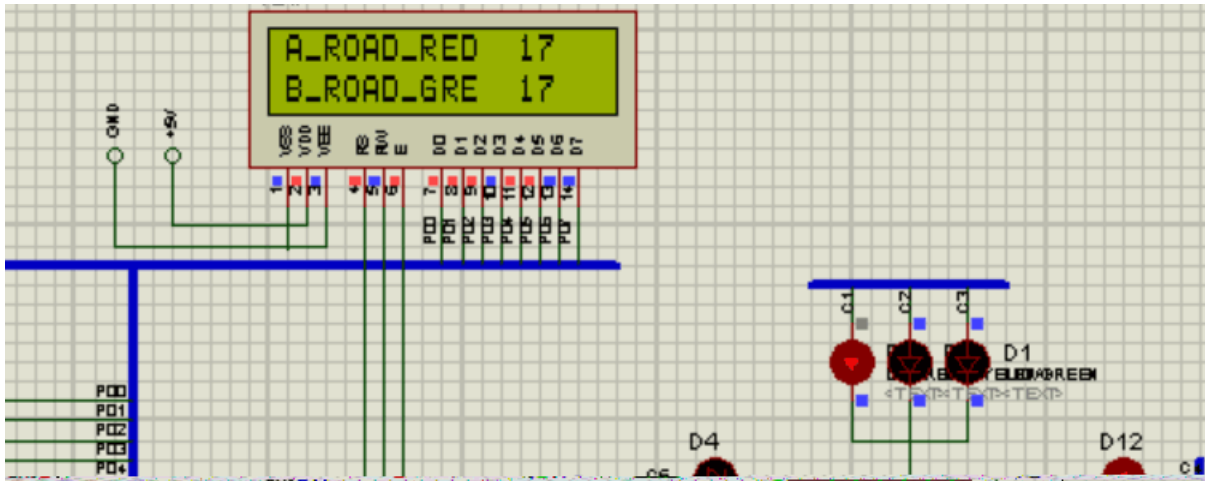
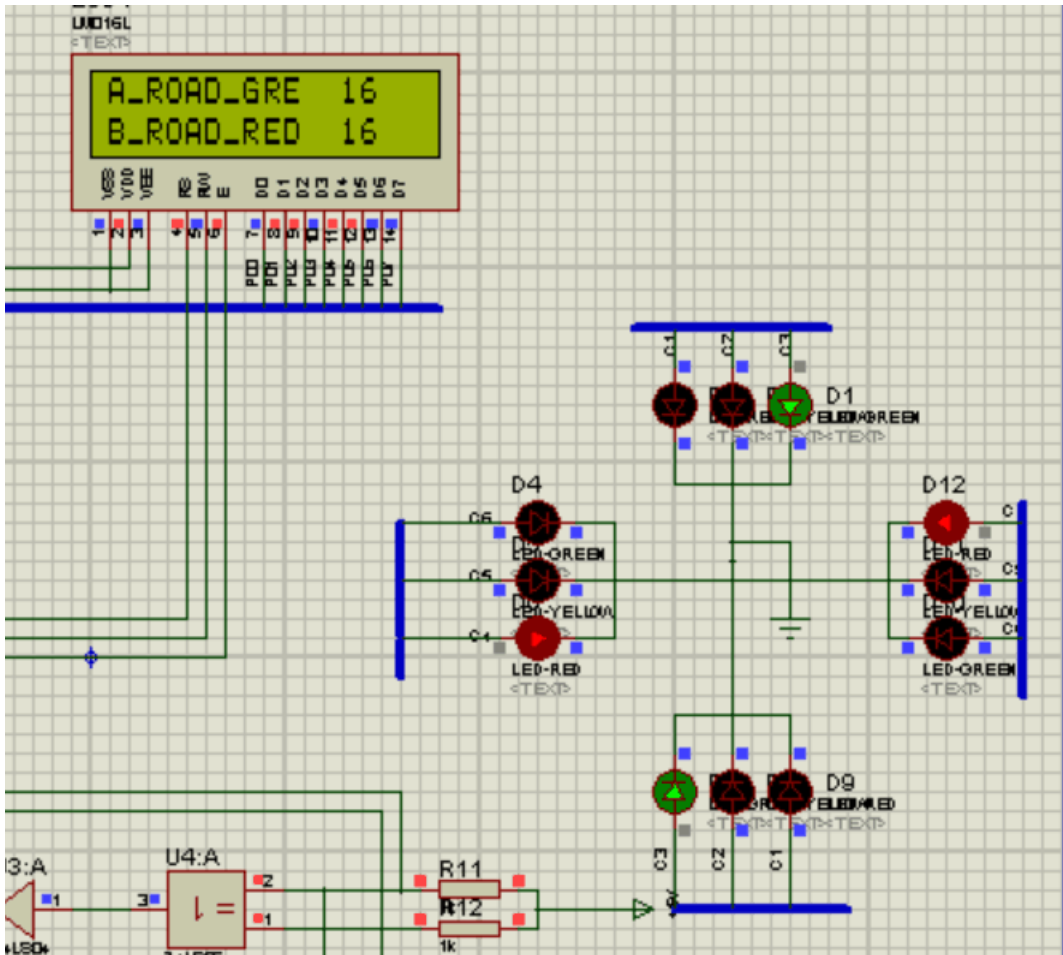
6.



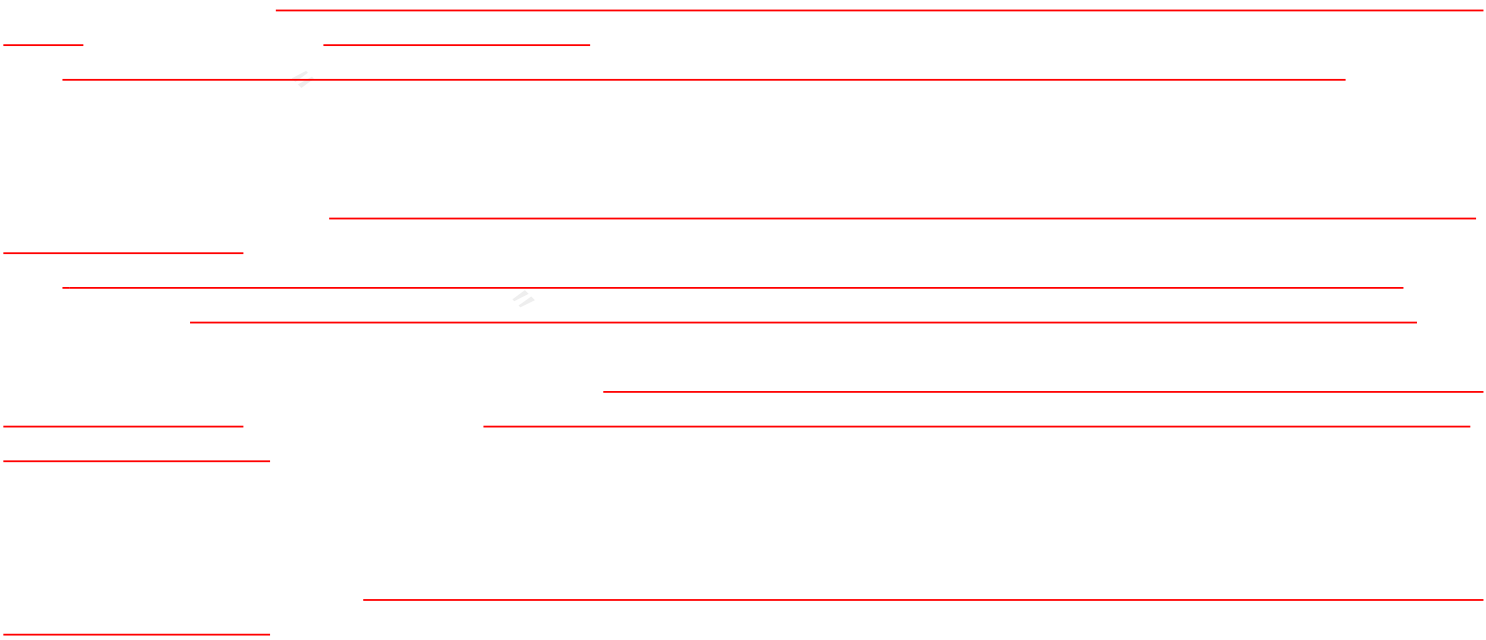
Proteus
10 Proteus

10





SW2 SW3, A B LCD A B
SW1 A/B 13 5s B A SW4 SW1 A 12 SW4 B
11 11 12 A/B 13
7.
Proteus Keil uVision4
SW2 A SW2 SW3 SW1 SW4
SW2 A SW3 B SW3 A B SW3



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