

COE241 HW3

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Code:

```
#include <p24fj128ga010.h>
```

```
#include "config.h"
```

```
int main(void)
```

```
{
```

```
    TRISA=0xFF88; //RA0-2 and RA4-6 will be set as output
```

```
    TRISD= 0x2020; //RD6 and RD13 is set as input
```

```
    while (1)
```

```
{
```

```
    if(PORTDbits.RD13==0){ //if conditions for normal mode is satisfied
```

```
        PORTA=0x0011; //set RA0 AND RA4 ON
```

```
        Delay(1000);
```

```
        PORTA=0x0041; //set RA6 AND RA0 ON
```

```
        int i;
```

```
        for( i=1; i<=8; i++){
```

```
            Delay(1000); // time delay for 8 sec
```

```
        }
```

```
        PORTA=0x0021; //set RA5 AND RA0 ON
```

```
        for( i=1; i<=4; i++){
```

```
            Delay(1000); //time delay for 4secs
```

```
        }
```

```
        PORTA=0x0011; //set RA0 AND RA4 ON
```

```
        Delay(1000);
```

```
        PORTA=0x0014; //set RA2 AND RA4 ON
```

```
        for( i=1; i<=8; i++){
```

```
            Delay(1000); //time delay 8 seconds
```

```
        }
```

```
        PORTA=0x0012; //set RA1 AND RA4 ON
```

```
        for(i=1; i<=4; i++){
```

```
            Delay(1000); //time delay 4 seconds
```

```
        }
```

```
    }
```

```
else { //conditions for flashing mode
```

```
    PORTA=0x0000; //all off
```

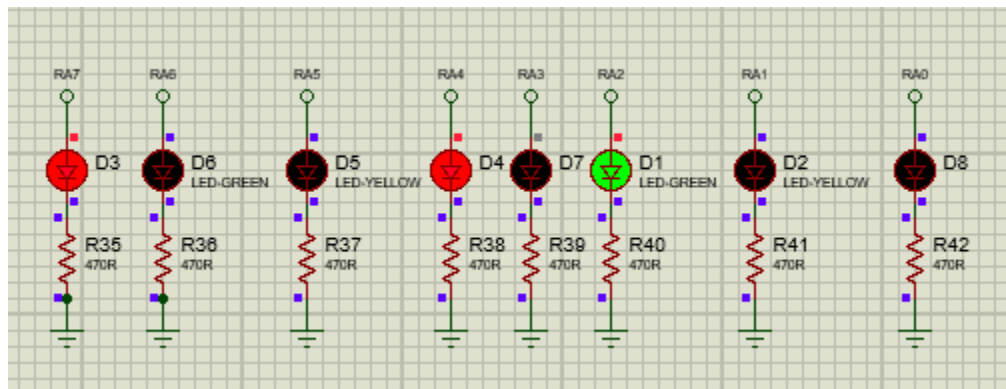
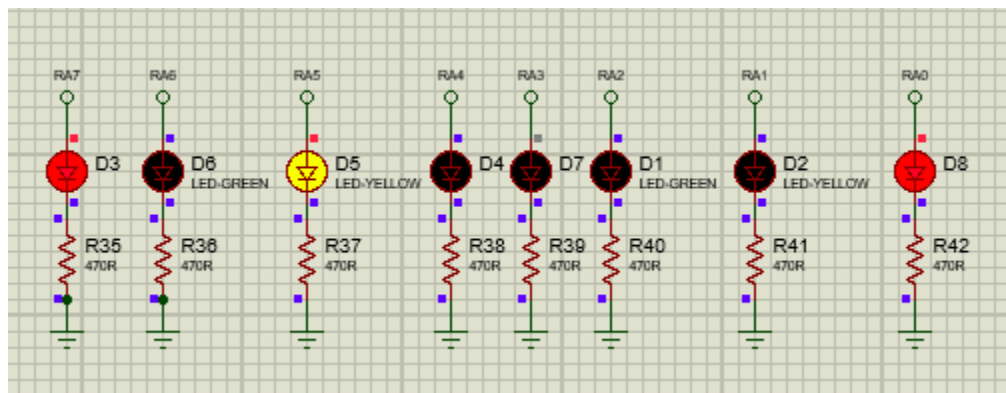
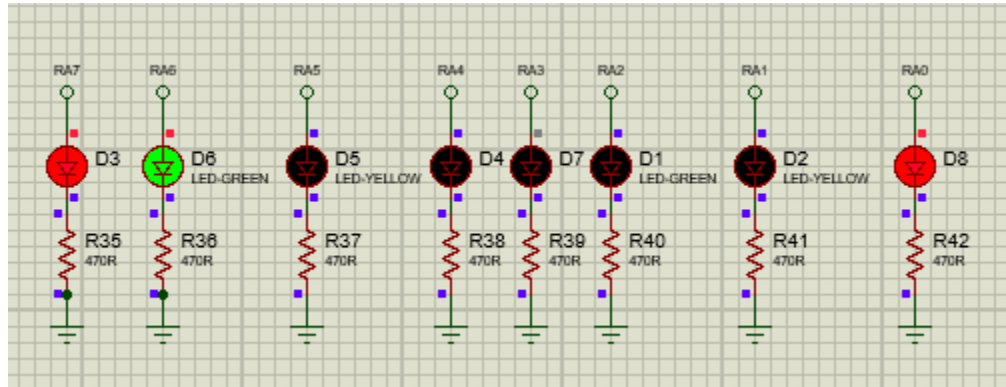
```
    Delay(1000); //one second delay
```

```

PORTA=0x0041; //RA6 and RA0 on
Delay(1000); }
return 0;
}

```

Screenshots:  
Normal Mode:



Flashing Mode:

