```
#define R1 2
                //red led 1
#define R2 5
                //red led 2
#define Y1 3
                //yellow led 1
#define Y2 6
                //yellow led 2
#define G1 4
                //green led 1
#define G27
                //green led 2
#define BI 8
               //button input
                //button output
#define BO 9
#define Rd 1000 //Delay red-red
#define Yd 1000 //Delay yellow
#define Gds1 3000 //Delay green serie 1
#define Gds2 1000 //Delay green serie 2
#define Nd 500
                 //nightmode delay
#define NI 11
                //Night Led
int mode=0;
int pcase;
void setup()
  pinMode(R1,OUTPUT);
  pinMode(R2,OUTPUT);
  pinMode(Y1,OUTPUT);
  pinMode(Y2,OUTPUT);
  pinMode(G1,OUTPUT);
  pinMode(G2,OUTPUT);
  pinMode(BO,OUTPUT);
  pinMode(NI,OUTPUT);
  digitalWrite(R1,HIGH);
  digitalWrite(R2,HIGH);
  digitalWrite(Y1,LOW);
  digitalWrite(Y2,LOW);
  digitalWrite(G1,LOW);
  digitalWrite(G2,LOW);
  digitalWrite(BO,HIGH);
}
void loop()
  switch(mode)
  case 0:
    digitalWrite(NI,LOW);
    digitalWrite(R1,HIGH);
    digitalWrite(R2,HIGH);
    digitalWrite(Y1,LOW);
    digitalWrite(Y2,LOW);
    digitalWrite(G1,LOW);
    digitalWrite(G2,LOW);
    digitalWrite(BO,HIGH);
    pcase=mode;
    digitalWrite(Y1,LOW);
    digitalWrite(Y2,LOW);
    digitalWrite(R2,HIGH);
    scan(Rd);
    if (pcase!=mode)
      break;
    digitalWrite(R2,LOW);
    digitalWrite(G2,HIGH);
    scan(Gds1);
    if (pcase!=mode)
      break;
```

```
digitalWrite(G2,LOW);
    digitalWrite(Y2,HIGH);
    scan(Yd);
    if (pcase!=mode)
       break;
    digitalWrite(Y2,LOW);
    digitalWrite(R2,HIGH);
    scan(Rd);
    if (pcase!=mode)
       break;
    digitalWrite(R1,LOW);
    digitalWrite(G1,HIGH);
    scan(Gds2);
    if (pcase!=mode)
    {
       break;
    digitalWrite(G1,LOW);
    digitalWrite(Y1,HIGH);
    scan(Yd);
    if (pcase!=mode)
       break;
    digitalWrite(Y1,LOW);
    digitalWrite(R1,HIGH);
    break;
  case 1:
    digitalWrite(NI,HIGH);
    digitalWrite(R1,LOW);
digitalWrite(R2,LOW);
    digitalWrite(G1,LOW);
    digitalWrite(G2,LOW);
    digitalWrite(Y1,HIGH);
    digitalWrite(Y2,LOW);
    scan(Nd);
    digitalWrite(Y1,LOW);
    digitalWrite(Y2,HIGH);
    scan(Nd);
    break;
  default:
    mode=0;
void scan(int time)
  for (int i=0; i<time; i++)
    delay(1);
    if (digitalRead(BI)==HIGH)
       mode=mode+1;
       delay(1000);
       break;
  }
}
```