```
int s1 = 10;
int s2 = 9;
int s3 = 8;
int s4 = 7;
int b = 11;
int bs;
long r;
void setup ()
  pinMode (s1, OUTPUT);
  pinMode (s2, OUTPUT);
  pinMode (s3, OUTPUT);
 pinMode (s4, OUTPUT);
pinMode (b, INPUT);
  randomSeed(analogRead(0));
}
void loop()
  bs = digitalRead(b);
  if (bs == LOW)
    r = random(1, 7);
    shuffle();
    if (r == 1)
    {
      one();
    if (r == 2)
      two();
    if (r == 3)
    {
      three();
    if (r == 4)
      four();
    if (r == 5)
      five();
   if (r == 6)
    {
      six();
    delay(3000);
  }
  else
  digitalWrite (s1, LOW);
  digitalWrite (s2, LOW);
  digitalWrite (s3, LOW);
  digitalWrite (s4, LOW);
```

```
}
void off()
  digitalWrite (s1, LOW);
  digitalWrite (s2, LOW);
  digitalWrite (s3, LOW);
  digitalWrite (s4, LOW);
void shuffle()
{
  one();
  delay(100);
  off();
  delay(100);
  two();
  delay(100);
  off();
  delay(100);
  three();
  delay(100);
  off();
  delay(100);
  four();
  delay(100);
  off();
  delay(100);
  five();
  delay(100);
  off();
  delay(100);
  six();
  delay(100);
  off();
  delay(200);
void one()
{
  digitalWrite (s4, HIGH);
}
void two()
  digitalWrite (s2, HIGH);
void three()
  digitalWrite (s4, HIGH);
  digitalWrite (s2, HIGH);
void four()
  digitalWrite (s1, HIGH);
  digitalWrite (s3, HIGH);
void five()
  digitalWrite (s1, HIGH);
  digitalWrite (s3, HIGH);
  digitalWrite (s4, HIGH);
```

```
}
void six()
{
  digitalWrite (s1, HIGH);
  digitalWrite (s2, HIGH);
  digitalWrite (s3, HIGH);
}
```