

```
/*  
Experiment No. :    01  
  
Statement      :    Make running light pattern of 5 LEDs.  
                :    It should run in both the directions  
                :    continuously.  
  
Date of Exp.   :    xx/xx/xxxx  
  
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```
*/  
// Define the pins for the LEDs  
  
const int ledPins[] = {2, 3, 4, 5, 6};  
const int numLeds = 5;  
  
// Define the delay between each LED  
const int delayTime = 200;  
  
void setup() {  
  
    // Set each LED pin as an output  
    for (int i = 0; i < numLeds; i++)  
    {  
        pinMode(ledPins[i], OUTPUT);  
    }  
}  
  
void loop() {  
  
    // Run LEDs forward  
  
    for (int i = 0; i < numLeds; i++)  
    {  
        digitalWrite(ledPins[i], HIGH);  
        delay(delayTime);  
    }  
}
```

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    digitalWrite(ledPins[i], LOW);  
}  
  
// Run LEDs backward  
for (int i = numLeds - 1; i >= 0; i--)  
  
{  
    digitalWrite(ledPins[i], HIGH);  
    delay(delayTime);  
    digitalWrite(ledPins[i], LOW);  
}  
}
```

