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Experiment No.: 02
Statement
Make experiment 1 work with two switches. One switch press would
result running of LEDs in one direction, while the second switch
press would result running of LEDs in opposite direction.
Date of Exp. : xx/xx/xxxx
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// Define pin numbers for
buttons and LEDs int button1
= 7;
int
button2 =
8; int
led1 = 2;
int led2
= 3; int
led3 =
4; int
led4 =
5; int
led5 =
6;
void setup() {
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```
// Set the LED pins
as output
pinMode(led1,
OUTPUT);
pinMode(led2,
OUTPUT);
pinMode(led3,
OUTPUT);
pinMode(led4,
OUTPUT);
```

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pinMode(led5, OUTPUT);
// Set the button
pins as input
pinMode(button1,
INPUT);
pinMode (button2,
INPUT);
}
void loop() {
// Read the state of buttons
int pin1 =
digitalRead(button1);
int pin2 =
digitalRead(button2);
// Forward loop if button1 is pressed
if (pin1 == LOW) {
 for (int i = 2; i < 7;
  i++) { digitalWrite(i,
  HIGH); // Turn on LED
  delay(200); // Wait for
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200 milliseconds
digitalWrite(i, LOW); //
Turn off LED delay(200);
// Wait for 200
milliseconds
}
```

```
// Backward loop if button2 is pressed
else if (pin2 == LOW) {

for (int i = 6; i > 1; i--) {
   digitalWrite(i, HIGH); //
   Turn on LED delay(200); //
   Wait for 200 milliseconds
   digitalWrite(i, LOW); //
   Turn off LED delay(200);
   // Wait for 200
   milliseconds
}
```



