

AIM:-

1. Interfacing of LED with Arduino and write a code for LED blinking.
2. Interface 3 or 8 LED's with Arduino and write a code to generate different patterns.

CODE:-

```
void setup() {  
    // initialize digital pin LED_BUILTIN as an output.  
    pinMode(10, OUTPUT);  
    pinMode(11, OUTPUT);  
    pinMode(12, OUTPUT);  
}  
  
// the loop function runs over and over again forever  
void loop() {  
    digitalWrite(10, HIGH);    // turn the LED on (HIGH is the voltage level)  
    digitalWrite(11, HIGH);    // turn the LED on (HIGH is the voltage level)  
    digitalWrite(12, HIGH);    // turn the LED on (HIGH is the voltage level)  
    delay(500);                // wait for a second  
    digitalWrite(10, LOW);  
    digitalWrite(11, LOW);  
    digitalWrite(12, LOW);  
    delay(500);  
  
    digitalWrite(10, HIGH);  
    digitalWrite(11, LOW);  
    digitalWrite(12, LOW);  
    delay(500);  
  
    digitalWrite(10, LOW);  
    digitalWrite(11, HIGH);  
    digitalWrite(12, LOW);  
    delay(500);  
  
    digitalWrite(10, LOW);  
    digitalWrite(11, LOW);  
    digitalWrite(12, HIGH);  
    delay(500);  
  
    digitalWrite(10, LOW);  
    digitalWrite(11, LOW);  
    digitalWrite(12, LOW);  
    delay(500);  
}
```

OUTPUT:-

