

```
/*  
BLINK - LAMPEGGIO  
*/
```

```
void setup() {  
  // initialize digital pin LED_BUILTIN as an output.  
  pinMode(13, OUTPUT);  
}
```

```
// the loop function runs over and over again forever
```

```
void loop() {  
  
  digitalWrite(LED_BUILTIN, HIGH);  
  
  delay(1000);  
  
  digitalWrite(LED_BUILTIN, LOW);  
  delay(1000);  
}
```

```
/*  
LED IN DISSOLVENZA  
*/
```

```
int led = 9;  
int brightness = 0;  
int fadeAmount = 5;
```

```
void setup() {  
  // declare pin 9 to be an output:  
  pinMode(led, OUTPUT);  
}
```

```
void loop() {  
  
  analogWrite(led, brightness);  
  
  // change the brightness for next time through the loop:  
  brightness = brightness + fadeAmount;
```

```
// reverse the direction of the fading at the ends of the fade:
```

```
if (brightness <= 0 || brightness >= 255) {  
  fadeAmount = -fadeAmount;  
}
```

```
// wait for 30 milliseconds to see the dimming effect
```

```
delay(30);  
}
```

```
/*  
PRESSIONE DI UN PULSANTE  
*/
```

```
// constants won't change. They're used here to set pin numbers:
```

```
const int buttonPin = 2;
```

```
const int ledPin = 13;
```

```
// variables will change:
```

```
int buttonState = 0;
```

```
void setup() {
```

```
pinMode(ledPin, OUTPUT);
```

```
pinMode(buttonPin, INPUT);
```

```
}
```

```
void loop() {
```

```
// read the state of the pushbutton value:
```

```
buttonState = digitalRead(buttonPin);
```

```
// check if the pushbutton is pressed. If it is, the buttonState is HIGH:
```

```
if (buttonState == HIGH) {
```

```
// turn LED on:
```

```
digitalWrite(ledPin, HIGH);
```

```
} else {
```

```
// turn LED off:
```

```
digitalWrite(ledPin, LOW);
```

```
}
```

```
}
```

```
/*  
ANALOG INPUT - LETTURA DA UN POTENZIOMETRO  
*/
```

```
int sensorPin = A0; // select the input pin for the potentiometer
```

```
int ledPin = 13; // select the pin for the LED
```

```
int sensorValue = 0; // variable to store the value coming from the sensor
```

```
void setup() {
```

```
pinMode(ledPin, OUTPUT);
```

```
}
```

```
void loop() {
```

```
sensorValue = analogRead(sensorPin);
```

```
digitalWrite(ledPin, HIGH);
```

```
delay(sensorValue);
```

```
digitalWrite(ledPin, LOW);
```

```
delay(sensorValue);
```

```
}
```