

პრაქტიკული დავალება #02

ტემპერატურის საზომი სენსორი

```
void setup() { Serial.begin(9600); }

void loop() {
  double temperature;
  double sensor_value = analogRead(A3);

  temperature = ((sensor_value * 5) / 1024 - 0.5) * 100;

  Serial.print("The room temperature degree is: ");
  Serial.print(temperature, 1);
  Serial.println();

  delay(1);
}
```



სახანძრო განგაში (Flame Sensor)

```
void setup() {
  Serial.begin(9600);

  pinMode(6, OUTPUT);
}

void loop() {
  int sensor_value = analogRead(A1);

  Serial.println(sensor_value);

  if (sensor_value > 500) {
    digitalWrite(6, HIGH);
  } else {
    digitalWrite(6, LOW);
  }
}
```



მანძილის საზომი სენსორი

```
#define TRIG 12
#define ECHO 11

int ping_time;

void setup() {
    Serial.begin(9600);

    pinMode(TRIG, OUTPUT);
    pinMode(ECHO, INPUT);
}

void loop() {
    digitalWrite(TRIG, LOW);
    delayMicroseconds(2000);

    digitalWrite(TRIG, HIGH);
    delayMicroseconds(15);

    digitalWrite(TRIG, LOW);
    delayMicroseconds(10);

    ping_time = pulseIn(ECHO, HIGH);
    ping_time = ping_time / (2 * 29);

    Serial.println(ping_time);

    delay(500);
}
```

FileEditSketchToolsHelp

sketch_may10c

```
define TRIG 12
define ECHO 11

int ping_time;

void setup() {
  Serial.begin(9600);

  pinMode(TRIG, OUTPUT);
  pinMode(ECHO, INPUT);
}

void loop() {
  digitalWrite(TRIG, LOW);
  delayMicroseconds(2000);

  digitalWrite(TRIG, HIGH);
  delayMicroseconds(15);

  digitalWrite(TRIG, LOW);
  delayMicroseconds(10);

  ping_time = pulseIn(ECHO, HIGH);
  ping_time = ping_time / (2 * 29);

  Serial.println(ping_time);

  delay(500);
}
```

Done compiling.

Using precompiled core: /tmp/arduino_cache_570251/core/core_archlinux-arduino_avr_mega_cpu_atmega2560_33334de5e2d3c26722b6eacd2ab9ae3a.a
Linking everything together...
/usr/bin/avr-gcc -w -Os -g -fplugin -fuse-linker-plugin -Wl,--gc-sections -mmcu=atmega2560 -o /tmp/arduino_build_747219/sketch/sketch_may10c.ino.elf /tmp/arduino_build_747219/sketch/sketch_may10c.ino.cpp.o /tmp/arduino_build_747219/.../arduino_cache_570251/core/core_archlinux-...
/usr/bin/avr-objcopy -O ihex -j .eeprom --set-section-flags=.eeprom=alloc,load --no-change-warnings --change-section-lma .eeprom=0 /tmp/arduino_build_747219/sketch_may10c.ino.elf /tmp/arduino_build_747219/sketch_may10c.ino.eep
/usr/bin/avr-objcopy -O ihex -R .eeprom /tmp/arduino_build_747219/sketch_may10c.ino.elf /tmp/arduino_build_747219/sketch_may10c.ino.hex
/usr/bin/avr-size -A /tmp/arduino_build_747219/sketch_may10c.ino.elf
Sketch uses 3344 bytes (1%) of program storage space. Maximum is 253952 bytes.
Global variables use 188 bytes (2%) of dynamic memory, leaving 8004 bytes for local variables. Maximum is 8192 bytes.

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Arduino Mega or Mega 2560, ATmega2560 (Mega 2560)