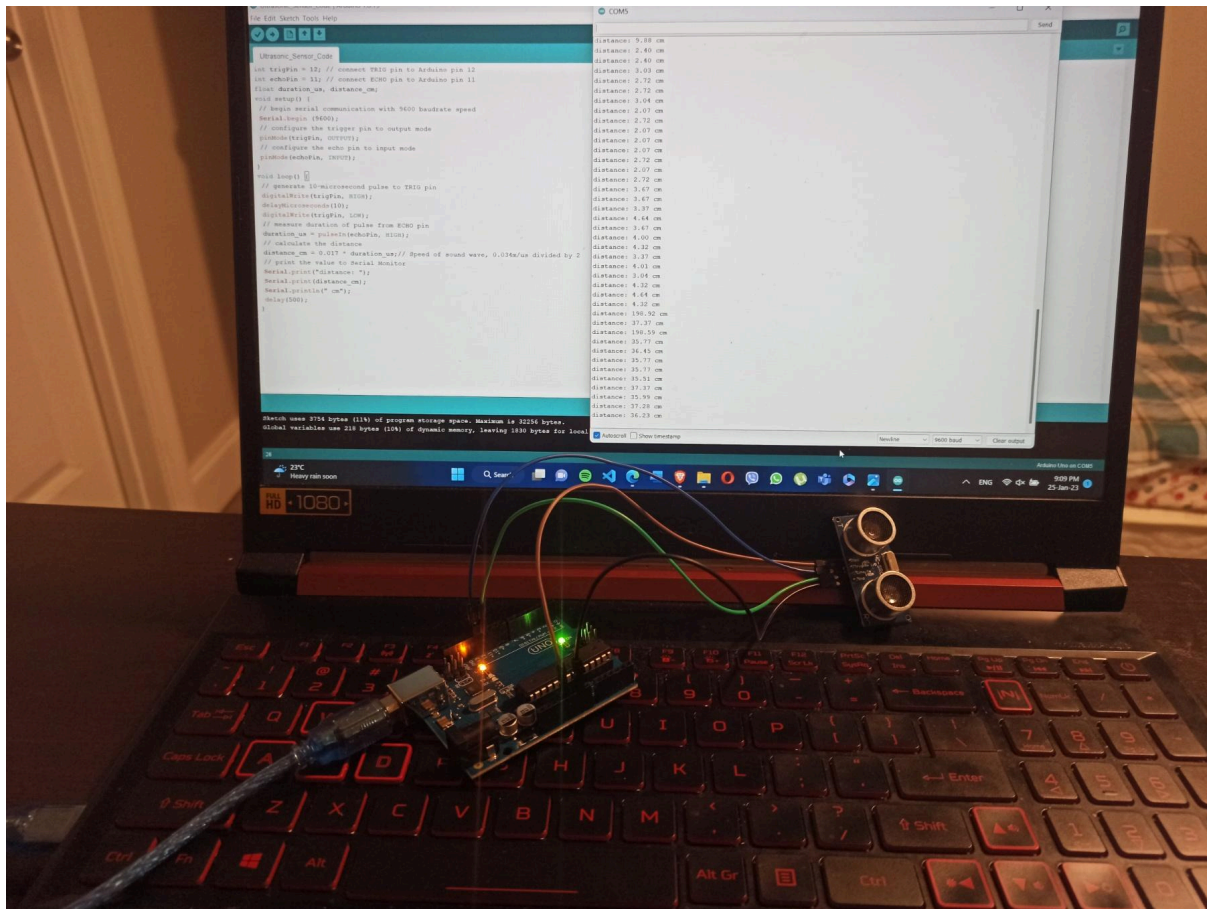
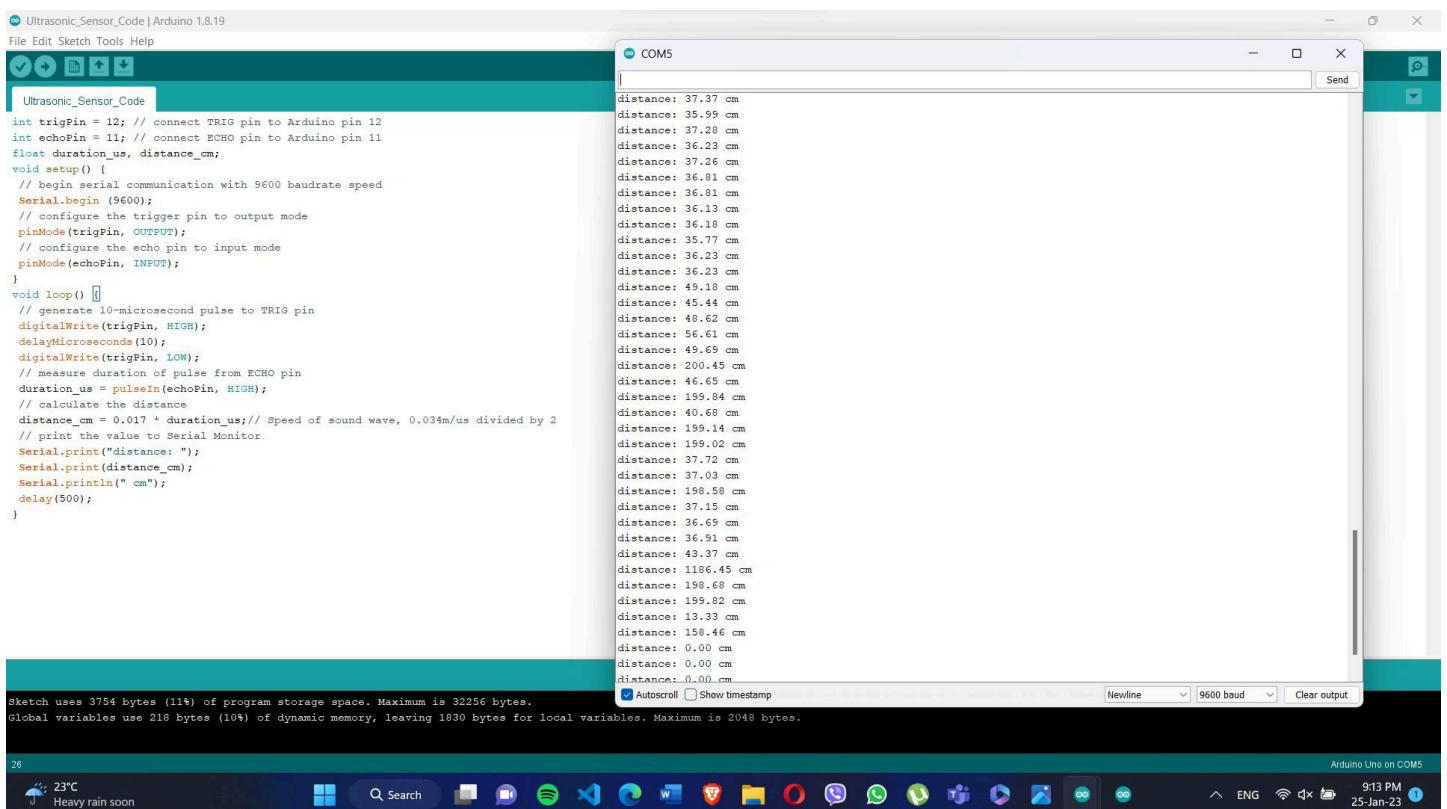


Exercise 1: Ultrasonic Sensor Module

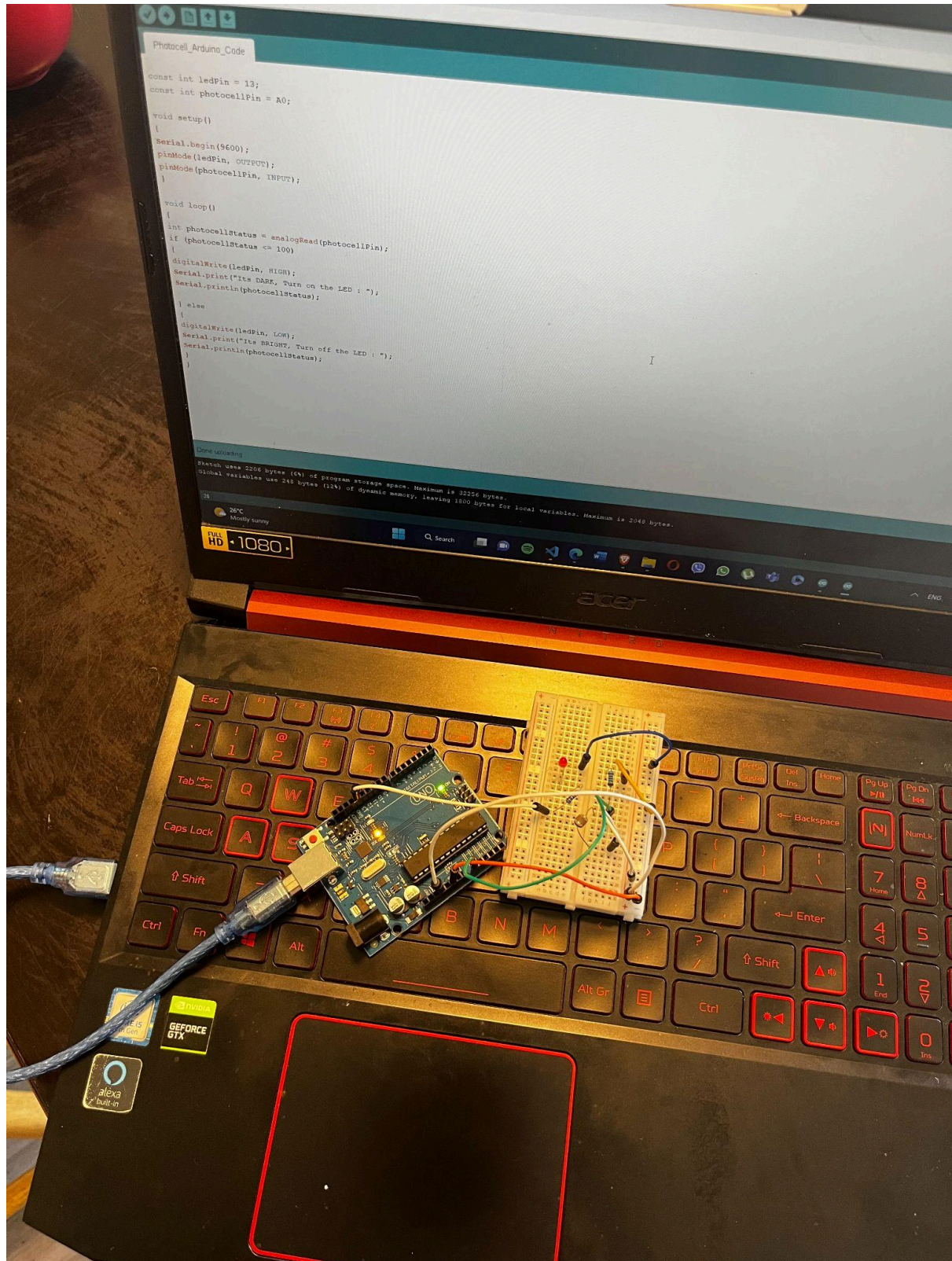


Serial Monitor:

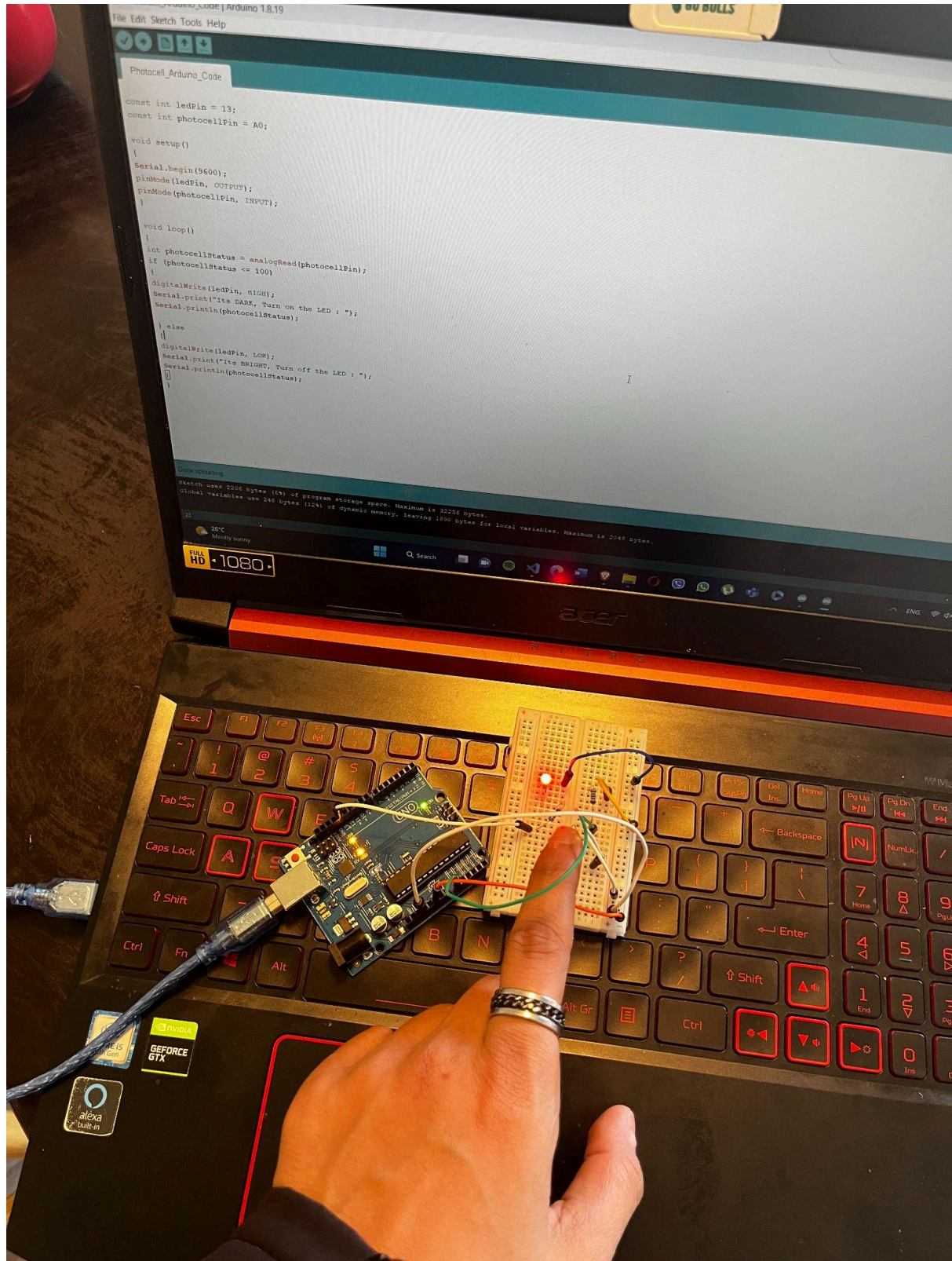


Exercise 2: Photo Sensor Module

In Bright Surrounding:



In Dark Surrounding:



Serial Monitor:

```
PhotoCell_Arduino_Code | Arduino 1.8.19
File Edit Sketch Tools Help

PhotoCell_Arduino_Code

const int ledPin = 13;
const int photoCellPin = A0;

void setup()
{
  Serial.begin(9600);
  pinMode(ledPin, OUTPUT);
  pinMode(photoCellPin, INPUT);
}

void loop()
{
  int photoCellStatus = analogRead(photoCellPin);
  if (photoCellStatus <= 100)
  {
    digitalWrite(ledPin, HIGH);
    Serial.print("Its DARK, Turn on the LED : ");
    Serial.println(photoCellStatus);
  } else
  {
    digitalWrite(ledPin, LOW);
    Serial.print("Its BRIGHT, Turn off the LED : ");
    Serial.println(photoCellStatus);
  }
}

Sketch uses 2206 bytes (6%) of program storage space. Maximum is 32256 bytes.
Global variables use 248 bytes (12%) of dynamic memory, leaving 1800 bytes for local variables. Maximum is 2048 bytes.
```

Serial Monitor (COM5)

```
Its BRIGHT, Turn off the LED : 148
Its BRIGHT, Turn off the LED : 132
Its DARK, Turn on the LED : 77
Its DARK, Turn on the LED : 37
Its DARK, Turn on the LED : 25
Its DARK, Turn on the LED : 22
Its DARK, Turn on the LED : 22
Its DARK, Turn on the LED : 21
Its DARK, Turn on the LED : 21
Its DARK, Turn on the LED : 21
Its DARK, Turn on the LED : 23
Its BRIGHT, Turn off the LED : 124
Its BRIGHT, Turn off the LED : 141
Its BRIGHT, Turn off the LED : 144
Its BRIGHT, Turn off the LED : 144
Its BRIGHT, Turn off the LED : 145
Its BRIGHT, Turn off the LED : 146
Its BRIGHT, Turn off the LED : 146
Its BRIGHT, Turn off the LED : 147
Its BRIGHT, Turn off the LED : 147
Its BRIGHT, Turn off the LED : 147
Its BRIGHT, Turn off the LED : 147
Its BRIGHT, Turn off the LED : 144
Its DARK, Turn on the LED : 74
Its DARK, Turn on the LED : 48
Its DARK, Turn on the LED : 34
Its DARK, Turn on the LED : 26
Its DARK, Turn on the LED : 24
Its DARK, Turn on the LED : 24
Its DARK, Turn on the LED : 23
-----
Autoscroll Show timestamp Newline 9600 baud Clear output
```

Arduino Uno on COM5

23°C Heavy rain soon 9:16 PM 25-Jan-23