import serial

# Set the COM port and baud rate

com\_port = 'COM4'

baud\_rate = 115200

# Open a serial connection

ser = serial.Serial(com\_port, baud\_rate, timeout=1)

# Open a file for writing

output\_file = open('received\_values.txt', 'w')

try:

    while True:

        # Read a line from the serial port

        line = ser.readline().decode('latin-1').strip()

        try:

            # Convert the received data to an integer

            value = int(line)

            print(f"Received value: {value}")

            # Write the value to the file

            output\_file.write(f"{value}\n")

            output\_file.flush()  # Ensure data is written immediately

        except ValueError:

            print(f"Invalid data received: {line}")

except KeyboardInterrupt:

    print("Exiting the program.")

finally:

    # Close the serial connection and the file when the program is interrupted

    ser.close()

    output\_file.close()