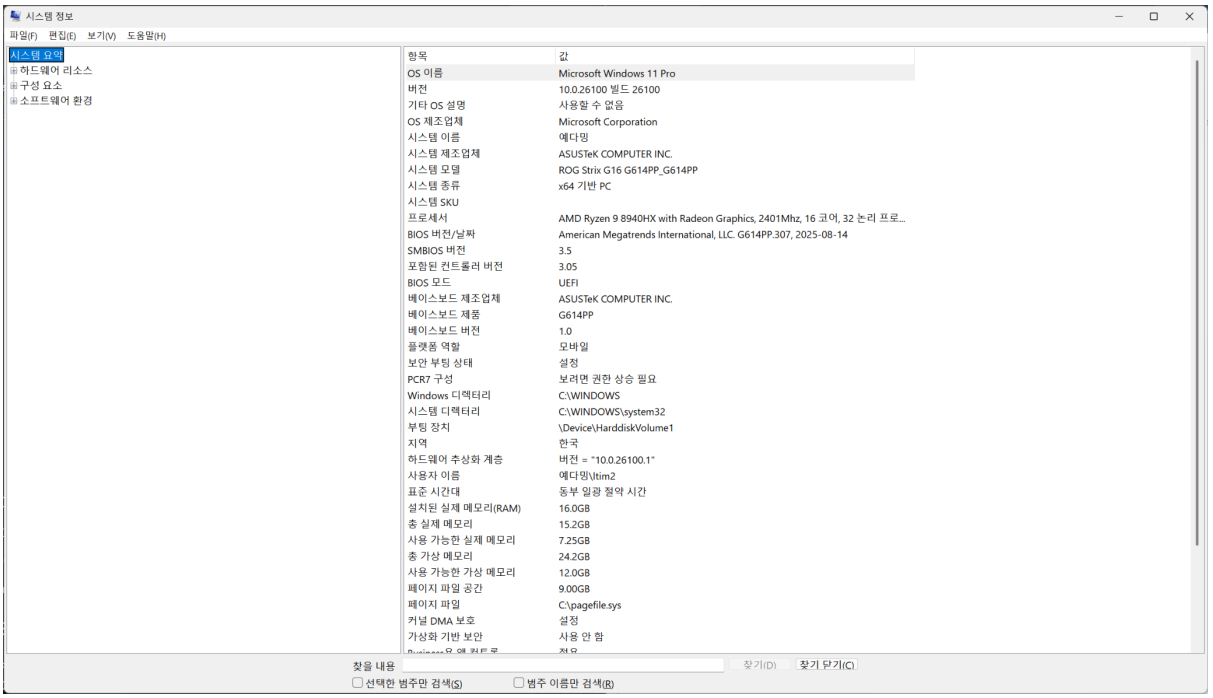
Exercise 1: System Hardware Detective

1. Windows Users: Open "System Information"



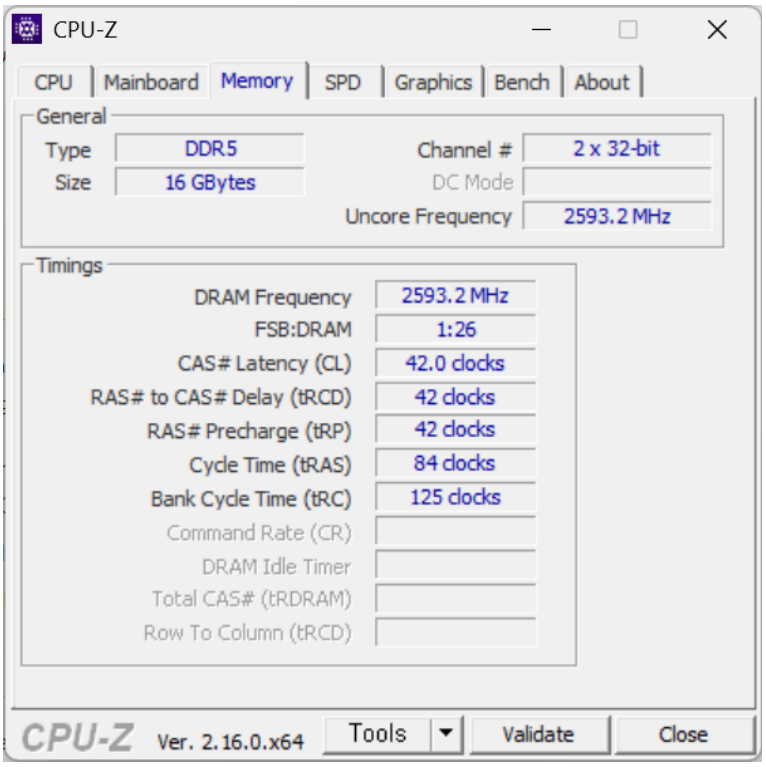
2. Find and record the following:

Processor (CPU) brand, model, and number of cores

- AMD, Ryzen 9 8940HX, 16 cores

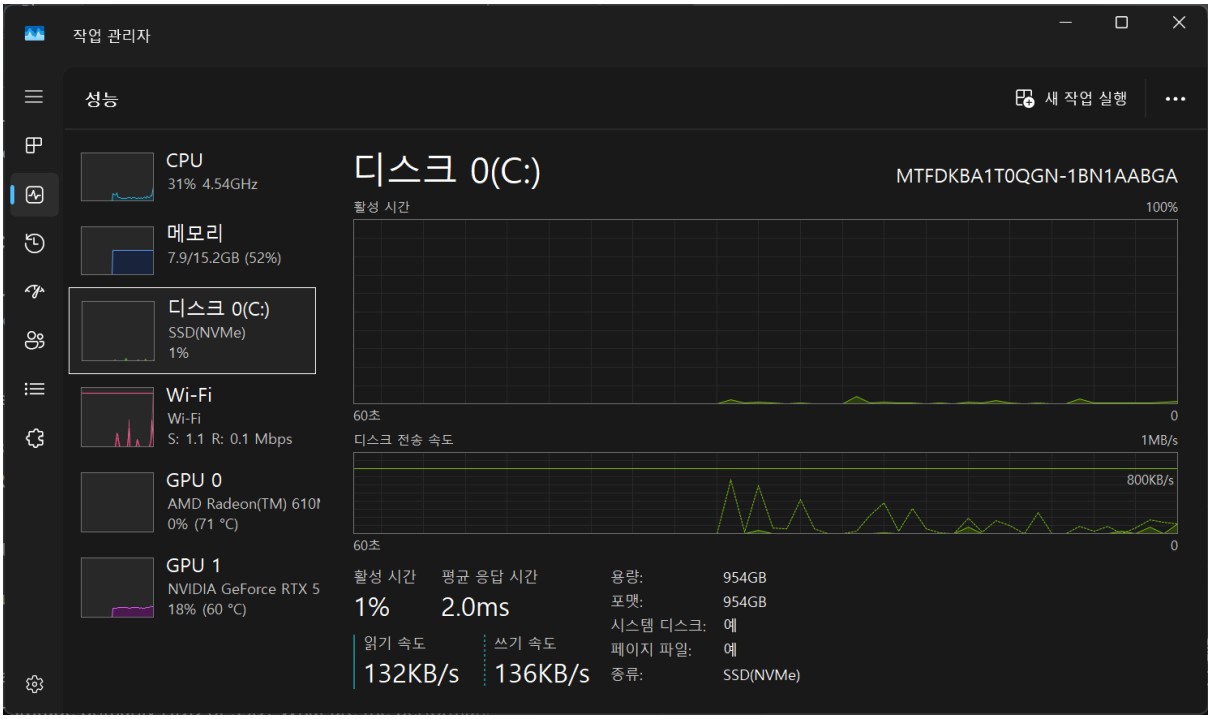
Total RAM amount and type (DDR4/DDR5)

- 16.0gb on a DDR5



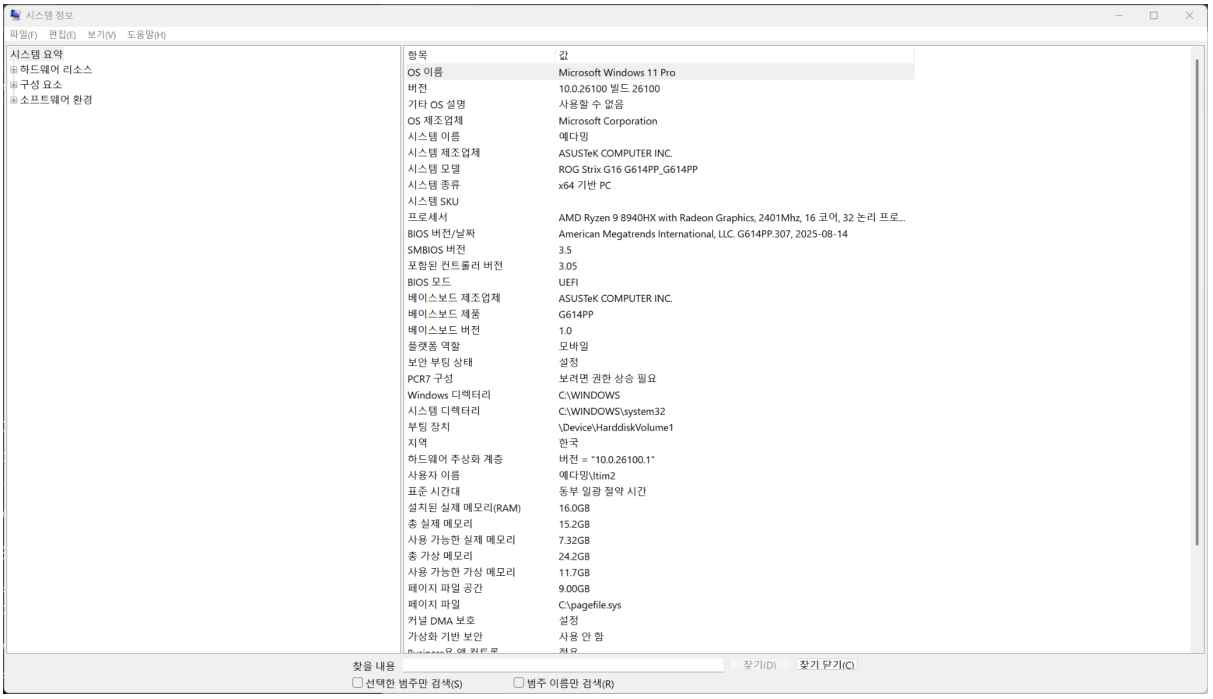
Storage device type (HDD/SSD) and capacity

- SSD 1TB (954gb)



Operating System version

- Microsoft Windows 11 pro



3. Analysis Questions:

Based on your CPU cores, how many tasks can your processor theoretically handle simultaneously?

- My CPU (AMD, Ryzen 9 8940HX) has 16 cores and it supports Simultaneous Multithreading (SMT) which means that each core can work on 2 threads so to answer the question, physically 16 tasks or theoretically 32 tasks (16 cores * SMT).

Is your storage primarily HDD or SSD? What are the performance implications?

- It is a Solid state drive (SSD) and there are lots of performance implications. Faster loading time, boots. Less heat and noise. Enhanced Performance in Demanding Tasks. Smoother Multitasking

How does your RAM amount compare to typical requirements for modern applications?

- My RAM amount 16gb is just enough for casual gaming and it can load my game's mid-high settings with no problem, and since it can load games easily I can run VS code with some youtube, github. Modern application's typical requirements are starting around 8-12gb minimum for most office use programs (except graphics or video editing they are monsters).