

# CY2002 Digital Forensics

## Assignment 02

### Software Write Blocker

For Windows OS

#### Introduction

**Deadline = 08 September 2024, 23:59:59**

Write blockers play a vital role in the digital forensic field specially during the acquisition phase. Numerous hardware and software-based write blockers are available in the market, mostly of them are proprietary and expensive. Being a student of digital forensics class, you are instructed to develop a write blocker software for Windows OS that should have the following capabilities.

- Support Windows OS (any version, at least 10 / 11)
- Must ensure write protection for external connected devices
- Must allow reading permission from external connected devices
- Can be based on Registry or Drivers (either modify registry values or develop a specific driver to manage USB ports of the system)
- Must work on your own system (Demonstration can be taken)
- Can have GUI (optional, however, recommended)
- Can be developed in any programming language

#### Deliverables + Submission Guidelines

Develop and test your tool thoroughly on your own system by connecting external USB / Hard disk / Cell phone etc that only read permissions are allowed. Make a video of your working tool of maximum **2 minutes** and prepare a user manual report of your tool. Submit 3 things on GCR as submission.

1. Code File(s) (60 Marks)
2. Report (30 Marks)
3. Demonstration Video (10 Marks)

This assignment is of 100 marks. You have to submit report file with **.docx**. Make sure to use the assignment template provided for report preparation. Before submitting on GCR, make sure to comply naming convention as **RollNumber-FullName-A01.docx / .cpp / .py / .mp4 etc**. It is recommended to NOT zip files before submission.

**Late submission is not allowed. This is an individual assignment. Assignment deadline will NOT be extended in any case.**

**Maximum Marks = 100**

**GCR Submission Deadline = 08 September 2024 11:59:59 PM**

**Assignment Template = Yes**

**Submission mode = Individual**

**Submission Files = Code + Report + Video**