

Lab 03

CS457 Big Data Security

## Assignment: Hash Function

Assignment given on : 10-Feb-2025

Assignment to be shown on: 17-Feb-2025

### Part 1. Handwritten Assignment

The hand written assignment will be of at least 4 pages [2 sheet back to back] (excluding figures) of handwritten text on what are hash function. 5 different hash function, pros and cons, application of hash functions

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### Part 2: Implement Hash Function

Create a secure password storage system using SHA-256 hashing. Users should be able to register with a username and password, which is stored as a hash. Implement a login system where input passwords are hashed and compared with stored hashes for authentication. Prevent brute force attacks with salting.