# CS 305 Module Five Coding Assignment Checksum Verification Template

## Instructions

Using the instructions from theModule Five Coding Assignment Checksum Verification Guidelines and Rubric, replace the bracketed text with the relevant information in your own words.

## Algorithm Cipher

SHA-256 (Secure Hash Algorithm)

## Justification

A collision is when different input results in the same hash output. SHA-256 is collision resistant, meaning no two different inputs will very rarely result in the same output. This is helpful because we don’t need other people to be able to generate the same hash. Additionally, it is a 256 bit meaning that it will generate a large hash code that makes it difficult to be hacked. Lastly, SHA-256 is standardized and widely used in many programs and libraries.

## Generate Checksum

You’ll submit your refactored code to your instructor. Your instructor will review it and this document.

Use <https://localhost:8443/api/hash> to view

## Verification

Insert a screenshot below of the web browser with your unique information.

A screenshot of a computer

Description automatically generated