# CS 305 Module Five Coding Assignment Checksum Verification

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## Algorithm Cipher

After reviewing the current Message Digest algorithms, SHA-256 is the best algorithm for the business to use.

## Justification

SHA-256 is widely used because it presents a lower chance of collisions. It’s less likely that two keys will have the same hash value. Two pieces of data that collide can put users at a higher security risk. It can also degrade data and system performance. Other cipher algorithms, such as MD-5, are at a higher risk of collisions. Checksum’s purpose is to verify data integrity. Anything that degrades it should be mitigated.

## Generate Checksum

Code submitted with assignment.

## Verification

Screenshot below:

A screenshot of a computer

AI-generated content may be incorrect.