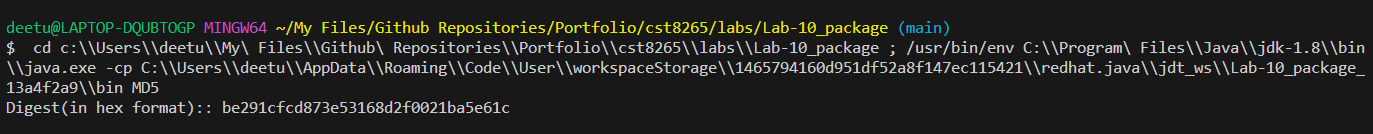
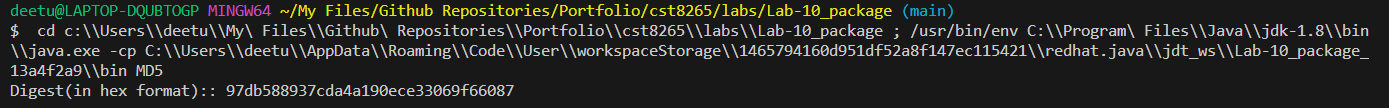
1. be291cfcd873e53168d2f0021ba5e61c



97db588937cda4a190ece33069f66087



The hash of the different zip files is not the same because of the avalanche effect. It ensures that even the slightest change in the input data will cause a significant change in the resulting hash value.

The message-digest algorithm is significant in information security because it is used for verifying the integrity of data. Even the smallest change can significantly alter the resulting hash value so comparing the resulting hash value can help in making sure that the data has not been altered.

1. Original:

A screenshot of a computer screen

Description automatically generated

Edited:

A screenshot of a computer screen

Description automatically generated

AES works by using a key expansion process to generate round keys. Without knowing the key, it is impossible to decrypt the ciphertext and retrieve the original encryption. Even with using the computer, it can take many years to decrypt especially without the key.