LAB 1: Hashing Lab. Exercise 1:

Q. Which file do you think is the original copy of the Calculator and which one is the tampered with copy?

Output: On comparing the generated hash values of all Calculator, Calc1 is the original copy as it matches with the given hash value. And all other Calculator (Calc2, Calc3) generates different hash values. **Original:** Calc1. **Tampered:** Calc2, Calc3.

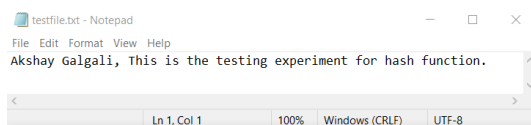Fig 1: Command Prompt Output showing generated hash values for different Calculators.

Exercise 2:

Q. What do you notice about the hash value computed after making the changes?
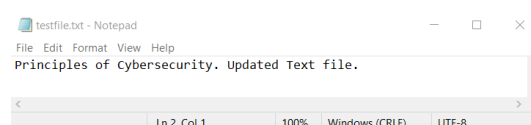
Output: The hash value of the text file completely changes after altering the file.

Q. What do you notice about the hash value now?

Output: The Hash value of the text file after changing it to the original text, it displays the same hash value as before.

Fig 2: Original Text File.

Fig 3: Altered Text File.

Fig 4: Command Prompt Output showing generated hash values for Original and Altered text file.