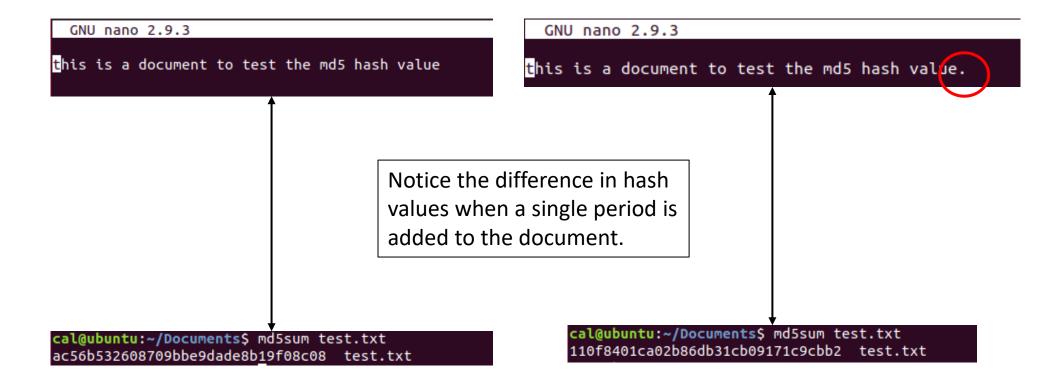
## How to identify the MD5 Hash file (Windows)

- What is a Hash?
  - It is a method to determine the integrity of a file, by producing a unique string of letters and numbers with a algorithm (mathematical formula) that results in only one possible result, for the same file.
  - As long as a file has not been changed in any way, it's hash value will always be the same. In this way, we can verify a file and it's data have not been tampered with by unauthorized users.
- How to do it?
  - Press the **Start** button -> Type **powershell** -> Press **Enter**.
  - In the PowerShell window, type "Get -FileHash –Algorithm md5 (directory to the file) C:\Users\hwells\Documents\Flash Research.txt

🔁 Windows PowerShell		- 🗆 ×	
Windows PowerShell Copyright (C) 2016 Microsoft Corporation. All rights reserved.			
PS C:\Users\ballen> Get-FileHash -Algorithm md5 C:\Users\hwells\Documents\Flash_Research.txt			
Algorithm	Hash	Path	
MD5	2B0698142E13FB20CB7F676035686934	C:\Users\hwells\Documents\Fla	
PS C:\Users\ballen> exit			

## How to identify the MD5 Hash file (Ubuntu)

- How to do it?
  - Open Terminal
  - Use the **md5sum** command with the file name to get the hash value
    - Use man page to identify options for command



## Identify file owner and searching files (Windows 10)

- To identify who the owner is of a file on Windows 10
  - Navigate to the file/folder and **Right Click** on the file
  - Select **Properties** -> At the tip of the Window, select the **Security** tab
  - At the bottom of the screen, select the Advanced button
  - At the top of the window, it will display the file name and the file owner
- Searching for files
  - At the top of file explorer window, to the right is a search bar
  - \*. is a command used to search for ALL files of a certain type
  - If you want to find all mp3 files on a computer, navigate to the top directory of the C drive
  - In the search bar, type **\*.mp3** and all the mp3 files will be located and displayed
  - You can search for any file extension \*.docx \*.pdf \*.txt and so on...

## Identify file owner and searching files (Ubuntu)

- To identify who the owner is of a file in Ubuntu
  - Navigate to the file/folder and Right Click on the file
  - Select Properties
  - Or
  - Open Terminal -> Navigate to file
  - Command: Is -I <file\_name>
- Searching for files
  - At the top of file explorer window, click the magnifying glass icon
  - \*. is a command used to search for ALL files of a certain type
  - Or
  - Open Terminal
  - Command: locate <file\_name>