# Initialization mode :

In initialization mode, the system Integrity verifier program requires user to enter a path to monitored directory, another path to a verification file, a third path to report a file and hash function.

The program will do the following:

* Verify that the specified monitored directory exists
* Verify that the specified verification file and the report file are outside the monitored directory
* Verify that the specified hash function is supported by your SIV
* If the verification file or report file exists already then, the user will be asked if he wants to overwrite the existing file. If answer is “no”, the program terminates.
* Recursively iterate through the directory contents and for each file found record the following information in the verification file

Verification mode:

In verification mode, the user provides the path of verification file and a path to a report file.

The program will do the following:

Verify that the specified verification file exists and if true, begin parsing the file

Verify that the specified verification file is outside the monitored directory

Verify that the specified report file is outside the monitored directory

Recursively iterate through the directory contents and verify that it matches exactly the information from the verification file. A warning must be printed to the report file for each entry that diverges from the records in the verification file