File Integrity Manager Flowchart

START

=> Ask user what they want to do

A. Collect new Baseline

B. Start monitoring files with saved Baseline

1. Calculate HASH value from target files

2. Store the file/hash pairs in baseline.txt

1. Begin monitoring files with saved Baseline

Load file hash pairs from baseline.txt

2. Continuously monitor file integrity

Loop through each file target file, calculate the hash, and compare the file|hash to what is baseline.txt

3. Notify user if a file is created or deleted or edited

If a file's actual hash is different than what is recorded in the baseline,
Print to the screen (Integrity Compromised)
If a file has been Created color Green
If a file has been Deleted color Red
If a file has been Edited color Yellow

4. Notify user on Email if file is created or deleted or edited

1. Send ALERT1 for Edited

2. Send ALERT2 for Created

3. Send ALERT3 for Deleted