

File Edit Format Run Options Window Help

```
import hashlib
import os
import time

def calculate_hash(file_path):
    hash_sha256 = hashlib.sha256()
    with open(file_path, 'rb') as file:
        while chunk := file.read(8192):
            hash_sha256.update(chunk)
    return hash_sha256.hexdigest()

def check_file_integrity(file_path, stored_hash):
    current_hash = calculate_hash(file_path)
    if current_hash == stored_hash:
        print(f"File integrity verified. Hash matches for: {file_path}")
    else:
        print(f"WARNING: File integrity compromised for: {file_path}")
        print(f"Current Hash: {current_hash}")

def monitor_file(file_path, stored_hash):
    while True:
        check_file_integrity(file_path, stored_hash)
        time.sleep(10)
if __name__ == "__main__":
    file_to_check = "C:/Users/HP/Documents/myfile.txt"
    stored_hash_value = calculate_hash(file_to_check)
    print(f"Stored Hash: {stored_hash_value}")

    monitor_file(file_to_check, stored_hash_value)
```



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```
File Edit Format View Help
hello, this is a test file.
we are checking file integrity using hash functions.

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