

Secure Backup Operation Execution

1. Install requirements

```
[ ] !pip install pytest cryptography
```

```
Requirement already satisfied: pytest in /usr/local/lib/python3.10/dist-packages (7.4.4)  
Requirement already satisfied: cryptography in /usr/local/lib/python3.10/dist-packages (42.0.8)  
Requirement already satisfied: iniconfig in /usr/local/lib/python3.10/dist-packages (from pytest) (2.0.0)  
Requirement already satisfied: packaging in /usr/local/lib/python3.10/dist-packages (from pytest) (24.1)  
Requirement already satisfied: pluggy<2.0,>=0.12 in /usr/local/lib/python3.10/dist-packages (from pytest) (1.5.0)  
Requirement already satisfied: exceptiongroup>=1.0.0rc8 in /usr/local/lib/python3.10/dist-packages (from pytest) (1.2.2)  
Requirement already satisfied: tomli>=1.0.0 in /usr/local/lib/python3.10/dist-packages (from pytest) (2.0.1)  
Requirement already satisfied: cffi>=1.12 in /usr/local/lib/python3.10/dist-packages (from cryptography) (1.16.0)  
Requirement already satisfied: pycparser in /usr/local/lib/python3.10/dist-packages (from cffi>=1.12->cryptography) (2.22)
```

2. Main code execution with data

```
... Starting secure backup operation...  
Enter username: 
```

User is admin

```
... Starting secure backup operation...  
Enter username: admin  
Enter password: 
```

password is: password123

```
Starting secure backup operation...  
Enter username: admin  
Enter password: password123  
Secure channel established.  
Initiating backup process...
```

End result:

```
Starting secure backup operation...  
Enter username: admin  
Enter password: password123  
Secure channel established.  
Initiating backup process...  
Backup process initiated.  
Data integrity verified.  
Backup operation completed successfully!
```