

# Module 2: Sequences and File Operations

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## Case Study II

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## Case Study II

### Domain – Telecom

focus – Optimization

#### Business challenge/requirement

LifeTel Telecom is the latest entrant in the highly competitive Telecom market of Singapore. It issues SIM to the verified users. Till now verification was manual through the photocopy of approved id card document. However government has recently introduced Social ID called Reference ID which is mapped to fingerprint of user. LifeTel should now verify user against the fingerprint and Reference ID

#### Key issues

Build a system where when user enters Reference ID it is encrypted, so that hackers cannot view the mapping of Reference ID and finger print

#### Considerations

System should be secure

#### Data volume

- NA

#### Additional information

- NA

#### Business benefits

Company will be able to quickly issue SIM to user and expected gain in volume is approximately 10 times as the manual process of verification is replaced with secure automated system

#### Approach to Solve

You have to use fundamentals of Python taught in module 2

1. Read the input from command line – Reference ID
2. Check for validity – it should be 12 digits and allows on number and alphabet

3. Encrypt the Reference ID and print it for reference

Enhancements for code

You can try these enhancements in code

1. Allow some special characters in ReferenceID
2. Give the option for decryption to user

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