

# Assessment

**Module 13) Python - Fundamentals of python language**

**Module 14) Python - Collections, functions and Modules in Python**

## **Case Overview**

You are a trainee Python developer at Tops technologies. The company is planning to launch a lightweight internal community board where employees can **share updates, report tech issues, and discuss solutions** via posts — all from a terminal-based Python app named **PostBoard**.

<b>Core Functionality</b>	
<b>Post Creation</b>	<ul style="list-style-type: none"><li>After login, a user can create a post by providing:<ul style="list-style-type: none"><li>Title</li><li>Description</li><li>Date (auto-generated or manually entered)</li></ul></li><li>Each post is linked to the user who created it.</li></ul>
<b>View All Posts</b>	<ul style="list-style-type: none"><li>Display all posts in a clean format showing:<ul style="list-style-type: none"><li>Author</li><li>Title</li><li>Date</li><li>Description</li></ul></li></ul>
<b>Search Posts by Username</b>	<ul style="list-style-type: none"><li>Let staff search posts created by a specific user.</li></ul>

## **Key Competencies Tested**

- Functions and modular code design
- Lists and dictionaries
- Looping (for/while)
- Input/output formatting
- Basic validation (e.g., login attempts, blank fields)

## **Practical Considerations**

- Temporary in-memory data (no database)
- Clean and organized function-based structure
- User-friendly prompts and formatted output
- Validate empty input or repeated usernames