

Java Practical Test #2

Please create a project containing solutions for parts 1 and 2. Please provide unit tests (e.g. using JUnit) in the same project to demonstrate each solution.

Part 1.

A palindrome is a word that reads the same backward or forward. Write a function that checks if a given word is a palindrome, returning true or false.

Part 2.

Implement a function `folderNames`, which accepts a string containing an XML file and a string containing a starting letter. The function returns a list of all folder names that start with `startingLetter`. The XML format is given in the example below.

For example, for the letter 'u' and an XML file:

```
<?xml version="1.0" encoding="UTF-8"?>
<folder name="c">
  <folder name="program files">
    <folder name="uninstall information" />
  </folder>
  <folder name="users" />
</folder>
```