

**22/SP-COP-2800-65294 Java Programming**

**Exercise 4.1**

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# Document Version Control

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# Document Purpose

The purpose of this document is to define the Vowel or consonant Class.

# Technical Specifications

## Purpose of Technical Implementation

The purpose of this implementation is to provide a message to the user if the value they entered is a consonant, vowel, or an invalid value.

## Technical Implementation Components

The class consists of one method, alphabetSearch(), that takes two arguments. The first argument is the character you would like to search for. The second argument is the array you would like to search for the value in. The alphabetSearch() method will enter a loop to compare every value in the specified array for the desired character. If the value is present, then the value will be compared to a vowel. If true, then the vowel is returned with a message. If false, the value is returned with a message. If the value is not present in the array, then the method will return an error message.

## Vowel or Consonant Implementation

The Vowel or Consonant class will return a message to the user dependent on three criteria. First, if the value entered is a vowel. Second, if the value is a consonant. Finally, if the value is a valid value.