Code Documentation

# Description

The provided Java code defines a simple console application that prints out a welcome message followed by a list of publishers' information using the `Publisher` class.

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## 1. Introduction

This program uses the `Publisher` class to represent a publisher with unique ID, name, email address, and phone number. The `main` method initializes a list of publishers and then iterates over them to print their details.

## 2. Requirements

To run this code, you need to have the following libraries available:  
- Java Development Kit (JDK)  
- Maven or Gradle build tool (not explicitly mentioned but required for compiling and running the code)

## 3. Usage Instructions

To run the program, follow these steps:  
 1. Compile the code using Maven or Gradle.  
 2. Run the compiled JAR file.  
 5. The program will print a welcome message followed by a list of publishers' details.

## 4. Code Comments

The code includes the following key sections:  
 1. Initialization of the welcome message variable (`var welcomeMessage = "Welcome to Cs425 City Library";`)  
 2. Printing the welcome message using `System.out.printf()` (`System.out.printf("%s\n", welcomeMessage);`)  
 3. Creation of an array of publishers (`var publishers = List.of(...)`)  
 4. Iteration over the publishers list and printing their details using `forEach()` and `System.out.println()`

## 5. Examples

Input/Output Example:  
```  
Welcome to Cs425 City Library  
Publisher[101,McGraw-Hill,sales@mcgraw.com,null]  
Publisher[102,Apress,sales@apress.com,(123) 456-7890]  
Publisher[103,Penguin-RandomHouse,null,null]  
Publisher[104,Addison-Wesley,null,null]  
```

## 6. Configuration

There are no configuration options for this program as it does not require user input.

## 7. Troubleshoot

Common issues may arise if:  
 1. The `Publisher` class is not defined correctly.  
 2. The `List.of()` method is used incorrectly.  
 3. The `System.out.printf()` method is used without specifying the format string.

## 8. Limitations

This program only prints the publishers' details in a simple format and does not provide any search functionality or advanced filtering capabilities.

## 9. Conclusions

While this program provides a basic example of how to work with the `Publisher` class, there are many ways to improve its functionality and usability.

## 10. Usage Examples

Practical use case:   
- This program can serve as a starting point for building more complex applications that interact with the `Publisher` class.  
- It demonstrates how to utilize Java's built-in data structures and methods for working with collections and strings.