Documentation

**Introduction**

The Email ID Search program is a Java-based application designed to search for a specific email ID within a predefined array of email IDs. The user inputs the email ID they want to find, and the program checks if it's in the array, providing feedback on whether it was found.

**Features**

* **Predefined Email ID Array**: The program contains an array of email IDs against which the search will be performed.
* **User Input**: Prompts the user to enter an email ID they want to search for.
* **Case-Insensitive Search**: The search is performed without regard to the casing of the characters.
* **Search Result**: Informs the user whether the email ID was found or not.

**Implementation Details**

Variables

* **emailIds**: An array that holds the email IDs for searching.
* **searchEmail**: A variable to store the email ID entered by the user.
* **isEmailFound**: A boolean variable to indicate whether the email ID was found.

Main Logic

1. **Collecting User Input**: A **Scanner** object is used to collect the email ID that the user wants to search for.
2. **Searching for the Email ID**: The program iterates through the **emailIds** array, comparing each email ID to the one entered by the user.
3. **Case-Insensitive Comparison**: The comparison is performed using the **equalsIgnoreCase** method, so the search is case-insensitive.
4. **Providing Feedback**: The program prints a message to the console to inform the user whether the email ID was found.

**How to Run**

1. **Environment Setup**: Ensure that Java is installed and configured on your system.
2. **IDE Setup**: You can use an IDE like Eclipse or IntelliJ to write and run the code.
3. **Copy and Run**: Copy the code into a new Java class and run the **main** method.

**Conclusion**

The Email ID Search program is a simple and effective way to practice array manipulation, user input handling, and string comparison in Java. It can be used as a starting point for more complex email validation or searching tasks within a larger system.

This code can be expanded by connecting to a real database of email IDs or by adding additional validation checks for the email format.