**Algorithm for Validation of an Email Id**

Start

1. Initialize emailArray with sample email IDs.

2. Prompt the user to enter an email ID.

3. Read and store the user input.

4. Validate the entered email format:

- Use a regular expression to check if the email format is valid.

5. If the email format is valid:

- Call the searchEmail method to check if the entered email exists in the emailArray.

6. Display the result:

- If the email is found, print "Email ID found!"

- If the email is not found, print "Email ID not found."

- If the email format is invalid, print "Invalid email format. Please enter a valid email ID."

End