

### Email Validation Algorithm:

1. \*Start: \*
2. Import the necessary Java packages (java.util.Scanner, java.util.regex.Matcher, and java.util.regex.Pattern).
3. Define the EmailValidator class.
4. Inside the class:
  - Define the main method:
    - Create a new Scanner object to read user input.
    - Prompt the user to enter an email address.
    - Read the user input as the email address.
    - Close the Scanner object.
    - Check if the entered email is valid using the isValidEmail method.
    - Display whether the email is valid or not.
  - Define the isValidEmail method:
    - Take an email address as a parameter.
    - Define a regular expression for basic email validation.
    - Create a Pattern object with the regular expression.
    - Create a Matcher object with the email address and the Pattern.
    - Return true if the email matches the pattern (valid), otherwise false.
5. \*End.\*

### Pseudocode:

plaintext

Start

Import Scanner, Matcher, and Pattern classes

Define EmailValidator class

Define main method

Create Scanner object

Prompt user to enter an email address

Read user input as email

Close Scanner

Check if email is valid using isValidEmail method

Display whether the email is valid or not

End main method

Define isValidEmail method

Take email as a parameter

Define regular expression for basic email validation

Create Pattern object with the regular expression

Create Matcher object with email and Pattern

Return true if email matches pattern, else false

End isValidEmail method

End

