

# Email Validation Write-Up

## #Algorithm

Step 1: Ask the user to input an email address

Step 2: Read the email address input by the user

Step 3: Define a regular expression pattern to validate email address

Step 4: Compile the pattern using `Pattern.compile()`

Step 5: Create a matcher object using `matcher()` method of pattern object

Step 6: Use the `matches()` method of the matcher object to check if the email address matches the regular expression pattern

Step 7: If the email address matches the pattern, print "Valid email address."

Step 8: If the email address does not match the pattern, print "Invalid email address. Please check your mail id."

## # Pseudocode

1. Print "Enter an email address: "

2. Read user input into email

3. Define regex as `^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$`

4. Compile the pattern using `Pattern.compile(regex)` and assign to pattern variable

5. Create a matcher object using `matcher()` method of pattern object with email as input

6. Use `matches()` method of the matcher object to match email against the pattern

7. If the email matches the pattern, Print "Valid email address."

8. If the email does not match the pattern, Print "Invalid email address. Please check your mail id."