EMAIL VALIDATION ALGORITHM

step-1 Input: String email

step-2 Output: Boolean value indicating whether the email is valid or not

step-3 Define Regular Expression Pattern

- EMAIL_REGEX to the regular expression pattern for a valid email address:

step-4 Compile Regular Expression Pattern

- Compile the regular expression pattern using a regular expression compiler.

- Let pattern be the compiled pattern.

step-5 Validate Email Function

- Define a function validateEmail that takes a string email as input.

- Create a Matcher object by applying the compiled pattern to the email.

- Return true if the email matches the pattern; otherwise, return false.

step-6 Test the Email Validation

- In the main function:

- Define an array emails containing test email addresses.

- Iterate over each email in the array.

- Print the email and the result of the validateEmail function.