1.

**. (Dot)**

* **Description**: Matches any single character except a newline.
* **Example**: The pattern a.b matches "acb", "a1b", "a b", but not "ab".

**\* (Asterisk)**

* **Description**: Matches zero or more occurrences of the preceding element.
* **Example**: The pattern a\*b matches "b", "ab", "aab", "aaab", etc.

**+ (Plus)**

* **Description**: Matches one or more occurrences of the preceding element.
* **Example**: The pattern a+b matches "ab", "aab", "aaab", but not "b".

**? (Question Mark)**

* **Description**: Matches zero or one occurrence of the preceding element, making it optional.
* **Example**: The pattern a?b matches "b" or "ab".

**2**.

import java.util.Scanner;

import java.util.regex.Pattern;

import java.util.regex.Matcher;

public class AccountGenerator {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.println("Enter your name (FirstName LastName):");

String input = scanner.nextLine();

// Define the regular expression

String regex = "^[A-Za-z]+ [A-Za-z]+$";

Pattern pattern = Pattern.compile(regex);

Matcher matcher = pattern.matcher(input);

// Check if the input matches the regular expression

if (!matcher.matches()) {

System.out.println("Incorrect format for name");

} else {

System.out.println("Name accepted.");

}

scanner.close();

}

}

