10. Write a program in java to verify implementations of regular expressions

**package** regexverification;

**import** java.util.regex.Matcher;

**import** java.util.regex.Pattern;

**public** **class** RegexVerification {

**public** **static** **void** main(String[] args) {

// Regular expression pattern

String pattern = "Hello, (\\w+)!";

// Input string

String input = "Hello, World!";

// Creating a Pattern object

Pattern regexPattern = Pattern.*compile*(pattern);

// Creating a Matcher object

Matcher matcher = regexPattern.matcher(input);

// Performing matching operation

**if** (matcher.matches()) {

System.***out***.println("Match found!");

// Extracting groups from the match

String name = matcher.group(1);

System.***out***.println("Name: " + name);

} **else** {

System.***out***.println("No match found!");

}

}

}

Output:

