

**Lab Tasks #2**

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**Course:**

Compiler Construction

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**Lab 2**

**Task#1**

using System;

using System.Text.RegularExpressions;

namespace LogicalOperatorsRegex

{

public partial class Form1: Form

{

public Form1 ()

{

InitializeComponent();

}

private void btn\_Click(object sender, EventArgs e)

{

string user\_Input = inputbox.Text; // Get user input

string pattern = @"\s\*(\&\&|\|\||!)\s\*"; // Regular expression for logical operators

// Create a regex object

Regex regeX = new Regex(pattern);

// Find all matches in the user input

MatchCollection matcH = regeX.Matches(user\_Input);

foreach (Match match in matcH)

{

output2.Items.Add(match.Value); // Display the matched logical operator

}

}

}

}

**Task#2**

using System.Text.RegularExpressions;

namespace RegularExpression

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

private void btn\_Click(object sender, EventArgs e)

{

}

private void btn2\_Click(object sender, EventArgs e)

{

string user\_Input = inputbox.Text;

string pattern = @"\s\*(==|!=|<=|>=|<|>)\s\*";

Regex regeX = new Regex(pattern);

MatchCollection matcH = regeX.Matches(user\_Input);

foreach (Match match in matcH)

{

output2.Items.Add(match.Value);

}

}

}

}