

ITS 362

Lab 06 – Server-Side Scripting I

Sharyl Riley
March 4, 2022

Objectives:

1. To get familiar with the server-side scripting using PHP.
2. To learn to use PHP GET and POST requests.

Tasks:

Create a website that allows a user to enter data into a form that will be used as a calculator. Your calculator form should allow the user to enter two operands, choose an operator, and show the result of the calculation on another webpage. You should make sure that your program performs data validation on the entered operands. Your calculator should include at least 5 operations in total (addition, subtraction, multiplication, division, etc.). You should create and include a CSS file in order to make your website look aesthetically pleasing.

You should have two Web pages: one for data entry (html) and another for calculations and displaying the results (PHP). On the second page, you should also display the data entered along with the results.

Please follow the good coding styles, use modules, and adopt meaningful names and good naming convention.

Deliverables

An electronic copy of your lab report (Word document) along with all your code files submitted to Brightspace. Please zip everything.

Your calculator form should allow the user to enter two operands, choose an operator
Chrome Browser

The screenshot shows a web browser window with the address bar displaying 'localhost/its362/docs/Lab06/lab6main.php'. The page title is 'ITS362 Lab06 Server-Side Scripting I'. The main heading is 'Simple Calculator'. Below the heading, there are two input fields for 'Enter a Number:'. To the right of these fields is a list of operators: Addition: +, Subtraction: -, Multiplication: *, Division: /, and Exponentiation: **. Below the operators is an input field for 'Enter Calculator Symbol:'. At the bottom of the form is a blue 'Calculate' button. The footer text reads 'Copyright © Sharyl Riley 2022'.

Safari Browser

The screenshot shows a web browser window with the address bar displaying 'localhost'. The page title is 'ITS362 Lab06 Server-Side Scripting I'. The main heading is 'Simple Calculator'. Below the heading, there are two input fields for 'Enter a Number:'. To the right of these fields is a list of operators: Addition: +, Subtraction: -, Multiplication: *, Division: /, and Exponentiation: **. Below the operators is an input field for 'Enter Calculator Symbol:'. At the bottom of the form is a blue 'Calculate' button. The footer text reads 'Copyright © Sharyl Riley 2022'.

Show the result of the calculation on another webpage:

Subtraction

localhost

ITS362 Lab06 Server-Side Scripting I

Calculator Results

Number Entered: 25
Number Entered: 75
Calculator Symbol Entered: -
Result: -50

Copyright © Sharyl Riley 2022

Addition

localhost

ITS362 Lab06 Server-Side Scripting I

Calculator Results

Number Entered: 25
Number Entered: 75
Calculator Symbol Entered: +
Result: 100

Copyright © Sharyl Riley 2022

Division

localhost

ITS362 Lab06 Server-Side Scripting I

Calculator Results

Number Entered: 25
Number Entered: 75
Calculator Symbol Entered: /
Result: 0.3333333333333333

Copyright © Sharyl Riley 2022

Multiplication

localhost

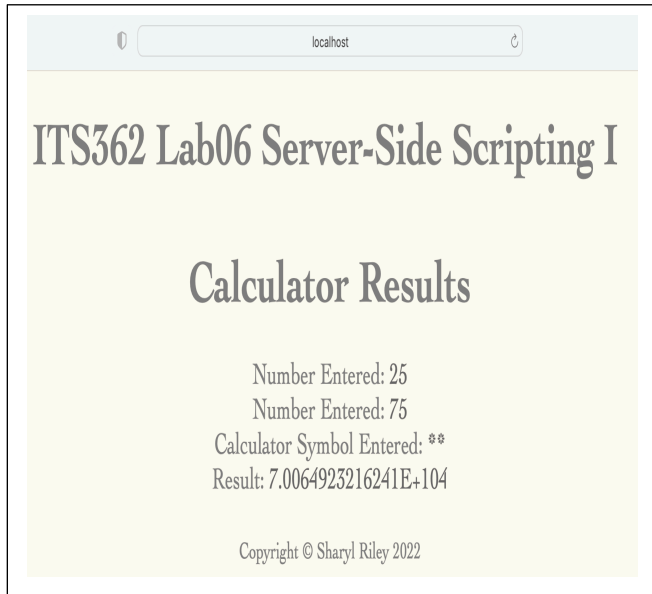
ITS362 Lab06 Server-Side Scripting I

Calculator Results

Number Entered: 25
Number Entered: 75
Calculator Symbol Entered: *
Result: 1875

Copyright © Sharyl Riley 2022

Exponentiation



ITS362 Lab06 Server-Side Scripting I

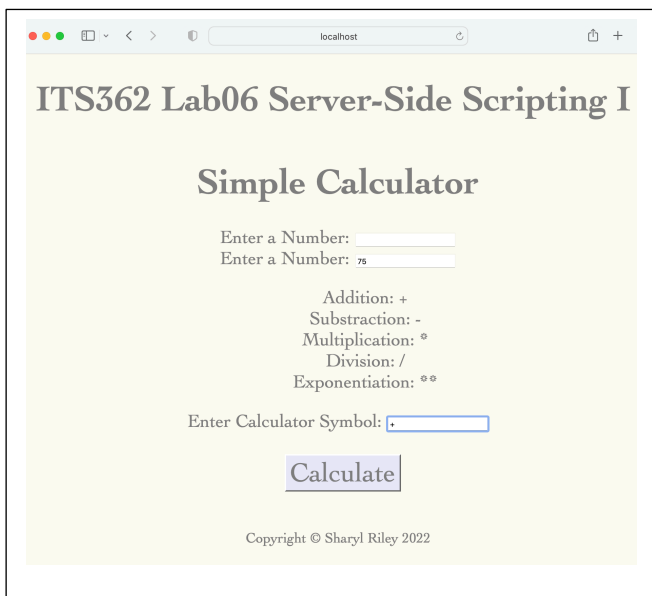
Calculator Results

Number Entered: 25
Number Entered: 75
Calculator Symbol Entered: **
Result: 7.0064923216241E+104

Copyright © Sharyl Riley 2022

You should make sure that your program performs data validation on the entered operands.

Empty Number



ITS362 Lab06 Server-Side Scripting I

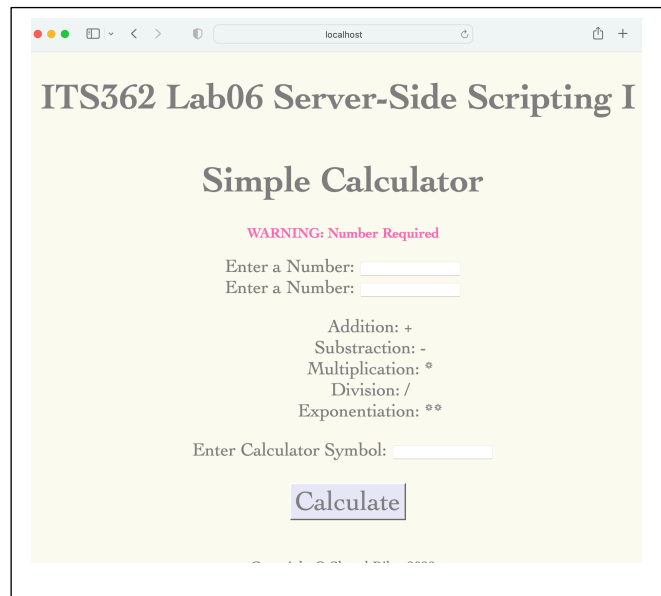
Simple Calculator

Enter a Number:
Enter a Number:

Addition: +
Subtraction: -
Multiplication: *
Division: /
Exponentiation: **

Enter Calculator Symbol:

Copyright © Sharyl Riley 2022



ITS362 Lab06 Server-Side Scripting I

Simple Calculator

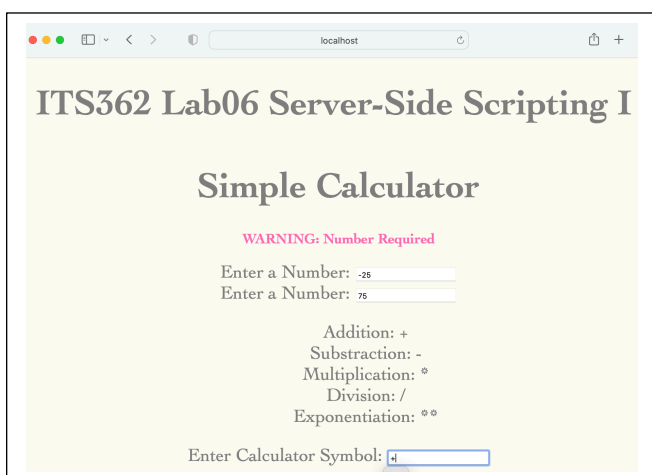
WARNING: Number Required

Enter a Number:
Enter a Number:

Addition: +
Subtraction: -
Multiplication: *
Division: /
Exponentiation: **

Enter Calculator Symbol:

Number Less than 0



ITS362 Lab06 Server-Side Scripting I

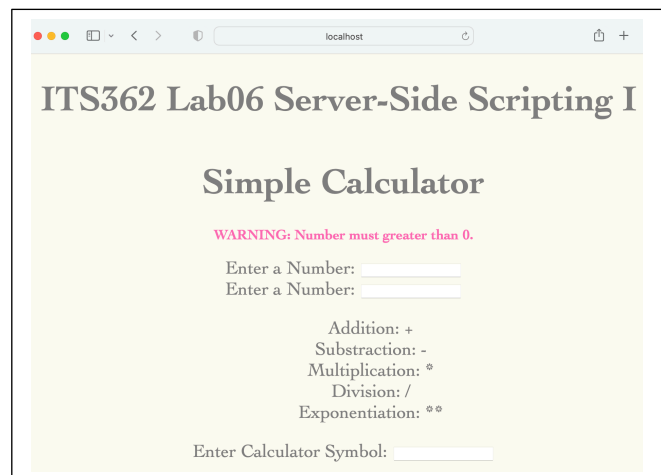
Simple Calculator

WARNING: Number Required

Enter a Number:
Enter a Number:

Addition: +
Subtraction: -
Multiplication: *
Division: /
Exponentiation: **

Enter Calculator Symbol:



ITS362 Lab06 Server-Side Scripting I

Simple Calculator

WARNING: Number must greater than 0.

Enter a Number:
Enter a Number:

Addition: +
Subtraction: -
Multiplication: *
Division: /
Exponentiation: **

Enter Calculator Symbol:

Missing Number

ITS362 Lab06 Server-Side Scripting I

Simple Calculator

Enter a Number: 25

Enter a Number:

Addition: +

Substraction: -

Multiplication: *

Division: /

Exponentiation: **

Enter Calculator Symbol: .

Calculate

Copyright © Sharyl Riley 2022

ITS362 Lab06 Server-Side Scripting I

Simple Calculator

WARNING: Number Required

Enter a Number:

Enter a Number:

Addition: +

Substraction: -

Multiplication: *

Division: /

Exponentiation: **

Enter Calculator Symbol:

Calculate

Copyright © Sharyl Riley 2022

Empty Calculator Symbol

ITS362 Lab06 Server-Side Scripting I

Simple Calculator

Enter a Number: 25

Enter a Number: 75

Addition: +

Substraction: -

Multiplication: *

Division: /

Exponentiation: **

Enter Calculator Symbol:

Calculate

Copyright © Sharyl Riley 2022

ITS362 Lab06 Server-Side Scripting I

Simple Calculator

WARNING: Calculator Symbol Required

Enter a Number:

Enter a Number:

Addition: +

Substraction: -

Multiplication: *

Division: /

Exponentiation: **

Enter Calculator Symbol:

Calculate

Copyright © Sharyl Riley 2022