

Practicals

Practical 7 – Reusing Code

Before starting with this practical, please follow the document entitled “Git Tutorial” from blackboard. Then use this practical to familiarise yourself with the local Git version control system.

1. Creating functions

Create a simple function that will output the classic “Hello World!” to the browser.

2. Using Functions with Arguments and return values

Create a function that accepts two arguments to perform a calculation. Then return a sentence with the result to the browser.

The function will calculate the area of a rectangle, with the two arguments being width and height. (Reminder: $\text{area} = \text{width} * \text{height}$.) The sentence to be returned is "A rectangle of width \$w and height \$h has an area of \$area.", where \$w and \$h are the arguments and \$area is the result. Use the values 40 and 50 for \$w and \$h respectively.

Although this is a very simple function, think on which ways you would extend the function? For example, what would you do to guarantee that the function is receiving the appropriate argument type?

3. Arguments from user input

For this PHP exercise, you will rewrite the rectangle area function from #2, this time to accept user input. Present a form to the user with the message "Please enter the values of the length and width of your rectangle." Below this, supply two text boxes, one for length and one for width. Using your function to process the user-supplied values, return the result statement from the previous exercise to the user. Make sure your program uses validation of user input.