

## BDPA SITES BACK END: Functions

1. Provide the definition of a parameter?

**A parameter is the name listed in the function definition**

2. What value do all functions without a return statement output?

**All functions without a return statement output will return a default value.**

3. Create a function with two parameters that returns the area of a rectangle.

```
function rectangle (length, width) {  
    Return length*width  
}
```

4. Executing the function fun1 below with the following arguments x = 5 and y = 3:

- a. Write the call statement for this function and arguments.

```
If (x==0){  
    for(x=0; x++)  
        console.log
```

- b. How many times will fun1 be recursively called?

**Fun1 will be recursively called 5 times**

- c. What value will be return?

**6**

```
int fun1(int x, int y) {  
    if(x == 0)  
  
    {  
        return y;  
    }  
    Else  
    {  
        return fun1(x - 1, x + y);  
    }  
}
```

5. Create a recursive function with one parameter that returns the sum numbers between the parameter and 1.

Ex:  $\text{sum}(2)$  would return 3 because  $1 + 2 = 3$

Ex:  $\text{sum}(5)$  = would return 15 because  $1 + 2 + 3 + 4 + 5 = 15$