

Review Coding Questions – Part 1

1. Write a PHP function `sumOfEvenNumbers` that takes an integer `n` and returns the sum of all even numbers from 1 to `n`.
2. Write a PHP function `printAssociativeArray` that takes an associative array and prints each key-value pair in the format `key: value`.
3. Create a PHP function `greet` that takes a name and an optional greeting message. If the greeting message is not provided, it should default to "Hello".
4. Write a PHP function `calculateAreaR` that calculates the area of a rectangle. The function should take two arguments: the length and the width of the rectangle, and return the area.
5. Write a PHP function `calculateAreaC` that calculates the area of a circle. The function should take one argument: the radius, and return the area.
6. Write a PHP function `findMax` that takes an array of numbers and returns the largest number. Use a `foreach` loop to achieve this. DO NOT sort the array!
7. What will be the output of the following PHP code?

```
for ($i = 0; $i < 3; $i++) {  
    for ($j = 0; $j < 2; $j++) {  
        echo "($i, $j) ";  
    }  
}
```

8. What will be the output of the following PHP code?

```
$x = 10;  
while ($x > 0) {  
    echo "$x ";  
    $x -= 3;  
}
```

9. What will be the output of the following PHP code?

```
$y = 1;  
do {  
    echo $y . " ";  
    $y *= 2;  
} while ($y < 10);
```

10. What will be the output of the following PHP code?

```
for ($i = 0; $i < 5; $i++) {
```

```
    if ($i == 3) {  
        break;  
    }  
    echo "$i ";  
}
```

11. What will be the output of the following PHP code?

```
for ($i = 0; $i < 5; $i++) {  
    if ($i == 2) {  
        continue;  
    }  
    echo "$i ";  
}
```

12. What will be the output of the following PHP code?

```
$colors = array("red", "green", "blue");  
foreach ($colors as $color) {  
    echo "$color ";  
}  
  
}
```

13. What will be the output of the following PHP code?

```
function counter() {  
    static $count = 0;  
    $count++;  
    return $count;  
}  
  
echo counter();  
echo counter();  
echo counter();
```