# Python Function Assignments

## 1. Greet User Function

Write a function called greet\_user(name) that prints:  
"Hello, <name>! Welcome to Python!"

## 2. Add Two Numbers

Write a function called add\_numbers(a, b) that returns the sum of two numbers.

## 3. Even or Odd

Write a function is\_even(num) that returns True if the number is even, else False.

## 4. Factorial Calculation

Write a function factorial(n) that returns the factorial of a number.  
Example: factorial(5) should return 120

## 5. Find Maximum of Three Numbers

Write a function max\_of\_three(a, b, c) that returns the maximum of three numbers.

## 6. Palindrome Checker

Write a function is\_palindrome(word) that returns True if the word is a palindrome.  
Example: is\_palindrome('madam') → True

## 7. Count Vowels in a String

Write a function count\_vowels(s) that returns the number of vowels in a string.

## 8. Fibonacci Series Generator

Write a function fibonacci(n) that returns a list of first n Fibonacci numbers.

## 9. Lambda Function Practice

Use a lambda function to square a number.  
Also, use map() to square all elements in a list: [1, 2, 3, 4, 5]

## 10. Find Prime Numbers in Range

Write a function get\_primes(n) that returns a list of prime numbers from 2 to n.