# Module 6.1 Function Introduction: Coding Questions with Hints

## Question 1: Write a function named `greet` that prints 'Hello, World!'.

Hint: Define the function with `def` and no parameters. Use `print` inside the function.

## Question 2: Create a function `add` that takes two parameters and returns their sum.

Hint: The function should have two parameters and use the return statement to give back the sum.

## Question 3: Implement a function `is\_even` that returns `True` if a number is even, otherwise `False`.

Hint: Use the modulus operator to check for evenness and return the boolean result.

## Question 4: Define a function `max\_of\_two` that takes two numbers and returns the larger one.

Hint: Use an if-else statement inside the function to compare the two numbers.

## Question 5: Write a function `factorial` that computes the factorial of a number and returns it.

Hint: Use a loop inside the function to calculate the factorial, starting from 1.

## Question 6: Create a function `count\_vowels` that counts and returns the number of vowels in a string.

Hint: Loop through the string inside the function and check each character against a set of vowels.

## Question 7: Implement a function `fibonacci` that returns the nth Fibonacci number.

Hint: Use recursion or iteration inside the function to calculate the Fibonacci sequence.

## Question 8: Write a function `is\_prime` that checks if a number is prime and returns `True` or `False`.

Hint: Check divisibility of the number by iterating from 2 to the square root of the number.

## Question 9: Define a function `find\_max` that takes a list of numbers and returns the maximum value.

Hint: Use a loop to iterate through the list and keep track of the maximum value found.

## Question 10: Create a function `reverse\_string` that takes a string and returns its reverse.

Hint: Use slicing or a loop to reverse the string inside the function.