

### **1. Sum of Array Elements:**

Write a function that takes an array of numbers as input and returns the sum of all the elements.

### **2. Find Maximum Value:**

Create a function that finds and returns the maximum value in an array of numbers.

### **3. Filter Even Numbers:**

Write a function that takes an array of numbers and returns a new array containing only the even numbers.

### **4. Reverse String:**

Implement a function that reverses a given string using loops.

### **5. Check Prime Numbers:**

Create a function that determines if a given number is prime. The function should return true for prime numbers and false for non-prime numbers.

### **6. Remove Duplicates:**

Write a function that takes an array as input and returns a new array with duplicate elements removed.

### **7. FizzBuzz:**

Implement the classic FizzBuzz problem. Loop through numbers from 1 to 100. If a number is divisible by 3, print "Fizz"; if it's divisible by 5, print "Buzz"; if it's divisible by both 3 and 5, print "FizzBuzz"; otherwise, print the number.

### **8. Factorial Calculation:**

Write a function to calculate the factorial of a given number using loops.

### **9. Check Palindrome:**

Implement a function that checks whether a given string is a palindrome (reads the same backward as forward).

### **10. Find Common Elements:**

Write a function that takes two arrays as input and returns a new array containing elements that are common to both arrays.