Javascript

Sheet 3

- 1. Celsius to Fahrenheit Conversion. Write a JavaScript program that converts a temperature from Celsius to Fahrenheit. The formula to convert Celsius to Fahrenheit is: $F = (C \times 1.8) + 32$.
- 2. Calculate the Average. Write a program that calculates the average of a list of numbers.
- 3. Determine the Largest Number. Write a program that finds the largest number in a list of numbers.
- 4. Check if a Number is Positive, Negative, or Zero. Write a program that checks if a number is positive, negative, or zero.
- 5. Calculate the Area of a Circle. Write a program that calculates the area of a circle given its radius. The formula to calculate the area of a circle is: $A = \pi r^2$.
- 6. Determine the Smallest Number. Write a program that finds the smallest number in a list of numbers.
- 7. Check if a Year is a Leap Year. Write a program that checks if a year is a leap year. A leap year is divisible by 4, but not by 100, unless it is also divisible by 400.
- 8. Convert Minutes to Hours and Minutes. Write a JavaScript program that converts a duration from minutes to hours and minutes. For example, if the duration is 123 minutes, the program should output "2 hours, 3 minutes".
- 9. Determine the Longest Word. Write a program that finds the longest word in a sentence.
- 10. Check if a Year is a Common Year. Write a program that checks if a year is a common year. A common year is not a leap year.
- 11. Calculate the Factorial. Write a program that calculates the factorial of a number.
- 12. Check if a Number is a Prime Number. Write a program that checks if a number is a prime number.

- 13. Count the Number of Vowels in a String. Write a program that counts the number of vowels in a string.
- 14. Check if a Number is a Perfect Number. Write a program that checks if a number is a perfect number. A perfect number is a positive integer that is equal to the sum of its proper divisors (excluding itself).
- 15. Calculate the GCD. Write a program that calculates the greatest common divisor (GCD) of two numbers.
- 16. Reverse a String. Write a program that reverses a string.