JavaScript Assignment

- 1. Write a function that takes a string as input and returns its length. Demonstrate the function with different test cases.
- 2. What does the charAt() method do in JavaScript?
- 3. Write a program that takes a string and an index as input and returns the character at that index using the charAt() method.
- 4. Explain the purpose of the charCodeAt() method.
- 5. Write a function that takes a string and an index as input and returns the ASCII value of the character at that index using charCodeAt().
- 6. Describe the differences between slice(), substring(), and substr() methods in JavaScript.
- 7. Provide examples demonstrating the usage of each method.
- 8. Write a function that converts a given string to uppercase and another function to convert it to lowercase.
- 9. What is the purpose of the join() method in JavaScript?
- 10. Write a program that demonstrates the usage of the join() method to concatenate array elements into a string.
- 11. Explain the use cases of trimStart() and trimEnd() methods in JavaScript.
- 12. Write a program that takes a string with leading and trailing whitespace and removes them using trimStart() and trimEnd() respectively.
- 13. What do padStart() and padEnd() methods do in JavaScript?
- 14. Write a program that pads a given number with leading zeros using padStart() and another program to pad it with trailing zeros using padEnd().
- 15. Describe the purpose of the repeat() method in JavaScript.
- 16. Write a program that repeats a given string a specified number of times using the repeat() method.
- 17. Explain the functionality of the replace() method in JavaScript.
- 18. Write a program that replaces a specific substring within a string with another substring using the replace() method.