

# JavaScript Practice Sheet # 3

## (Numbers & string Methods)

### Task 1: Sentence Capitalization

- Create a program that asks the user to enter a sentence.
- Capitalize the first letter of each word in the sentence.
- Display the modified sentence. Use a loop statement.

### Task 2: String Truncation

- Ask the user to enter a long string.
- Use slice to truncate the string to a specific length (e.g., 100 characters).
- Add "..." at the end to indicate truncation.
- Display the truncated string and original string .

### Task 3: String Search

- Create a program that stores a paragraph of text in a string.
- Ask the user to search for a specific word.
- Use indexOf to find the first occurrence of the word.
- Display the index if found, or "Word not found" if not.

### Task 4: Character Count

- Ask the user to enter a sentence.
- Use a loop to count the number of times a specific character appears in the sentence using `charAt`.
- Display the count.

### **Task 5: Word Replacement**

- Create a program that contains a sentence with placeholders (e.g., "The [noun] is [adjective].").
- Ask the user for words to replace the placeholders.
- Use `replace` to replace the placeholders with the user's words.
- Display the complete sentence.

### **Task 6: Calculate the Area of a Circle**

- Create a program that calculates the area of a circle.
- Ask the user to input the radius of the circle.
- Use the formula:  $\text{Area} = \pi * r^2$ , where  $\pi$  (pi) is approximately 3.14159.
- Display the calculated area..

### **Task 7: Temperature Conversion**

- Ask the user for a temperature in Celsius.
- Use `Math.round`, `Math.ceil`, and `Math.floor` to display the temperature rounded to the nearest whole number, up, and down, respectively.

### **Task 8: Discount Calculator**

- Create a program that asks the user for an item's original price.
- Generate a random discount percentage between 10% and 50% using `Math.random()`.
- Calculate the discounted price.
- Display the original price, discount percentage, and final price.

### **Task 9: Number to Currency**

- Create a program that calculates a money amount (e.g., 12345.6711).
- Format it as a currency (e.g., \$12,345.67) using `toFixed`.
- Display the formatted currency.

### **Task 10: Array Sorting**

- Create an array of names.
- Use `sort` to sort the names in alphabetical order.
- Display the sorted list of names.

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