String Operations Assignment - Exercise

## ProblemStatement:

Write a JavaScript function to extract unique characters from a string.

**Example string :** "thequickbrownfoxjumpsoverthelazydog"  
**Expected Output :** "thequickbrownfxjmpsvlazydg"

(Hint: Refer the String Operations tables in  the Quick Reference section.)

Follow the below instructions on how to run javascript program in VS code:

**Step1:** Open VS code and create a new folder with named as " Day1 assignment"(as this is the day1 assignment)

**Step2:**Inside the above folder, create a new file with .js extension and name as "exercise1"(first exercise of the day)

**Step3:**Write the suitable code for the above given program

**Step4**:Open the terminal and write "node exercise1.js" and press enter , the ouput will be available on the terminal .

**NOTE:Repeat this procedure for every upcoming assignments,change the folder name and file name accordingly**

# Check Palindrome Assignment - Exercise

Write a function,**check\_palindrome()** to check whether the given string is a palindrome or not. The function should return true if it is a palindrome else it should return false.

Assume that all the letters in the given string are all of the same case.   
Example: MAN, civic, WOW etc.

**Note:**Initialize the string with various values and test your program.

(Hint:Refer the String Operations tables in the Quick Reference section.)

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## ProblemStatement:

Write a JavaScript code to process name as the sample below.

**Sample Input:** Rama Krishna Narayan

**Sample Output:** R. K. Narayan

(Hint:Refer the String Operations tables in the Quick Reference section.)

# Date Operations Assignment - Exercise

## ProblemStatement:

Write a JavaScript code to formulate date for a specified date after given 'n' number of days.

**Sample Input:**16th Jul, 2018 and n=30

**Sample output:**15th August, 2018

**Note:** Don't forget to account for leap years!

(Hint: Refer the Date Operations tables in the Quick Reference section.)

# Date Operations Assignment - Exercise

## ProblemStatement:

Write a JavaScript program to display the current day and time in the following format.

**Sample Output :**  
Today is : Tuesday.   
Current time is : 10 PM : 30 : 38

(Hint: Refer the Date Operations tables in the Quick Reference section.)

## ProblemStatement:

Write a JavaScript function **checkDate()** to check if a given date is in the correct format or not.

Correct date format: "**MM-DD-YYYY**" (for example: 03-18-2018)

If the date format is as above, the function should print true else it should print false.

**Sample Input:** 19-12-1995

**Sample Output:** False

(Hint: Refer the Date Operations tables in the Quick Reference section.)

# Function Assignment - Exercise

## ProblemStatement:

A teacher is in the process of generating few reports based on the marks scored by the students of her class in a project based assessment.

**1**: Assume that the marks of her 10 students are available in an array.   
**2**: The marks are out of 25.

Write a JavaScript program to implement the following functions:

**find\_more\_than\_average():** Find and return the percentage of students who have scored more than the average mark of the class.

**generate\_frequency():** Find how many students have scored the same marks. For example, how many have scored 0, how many have scored 1, how many have scored 3….how many have scored 25. The result should be populated in a list and returned.

**Sample Input:**  
list\_of\_marks = [12,18,25,24,2,5,18,20,20,21]

**Sample Output:**  
more than average: 70.0  
frequency: [0, 0, 1, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 2, 0, 2, 1, 0, 0, 1, 1]