1. Write a JavaScript program to display the current day and time in the following format.   
   Sample Output : Today is : Friday.   
   Current time is : 4 PM : 50 : 22
2. Write a JavaScript program to get the current date. *Expected Output*:   
   mm-dd-yyyy, mm/dd/yyyy or dd-mm-yyyy, dd/mm/yyyy
3. Write a JavaScript program where the program takes a random integer between 1 to 10, the user is then prompted to input a guess number. If the user input matches with guess number, the program will display a message "Good Work" otherwise display a message "Not matched".
4. Write a JavaScript program to calculate multiplication and division of *two numbers using arrow functions*
5. Write a JavaScript program to capitalize the first letter of each word of a given string.
6. Write a JavaScript program to check if a given string contains equal number of p's and s's present.

Sample output :

Input string : paatpss

Output : true

Input string : paatps

Output : false

1. Write a JavaScript program to create a new string of 4 copies of the last 3 characters of a given original string. The length of the given string must be 3 and above.

Sample input 1: "Python 3.0" Output 1: 3.03.03.03.0

Input 2: "JS"

OUTPUT2 : false

Input3 : JavaScript

Output3: iptiptiptipt

1. Write a JavaScript program to swap the first and last elements of a given array of integers. The array length should be at least 1.
2. Write a JavaScript function that reverse a number. Using built in functions.   
   Example x = 32243;  
   Expected Output : 34223
3. Write a JavaScript function that returns a passed string with letters in alphabetical order. Using built in functions.   
   Example string : 'webmaster'   
   Expected Output : 'abeemrstw'  
   Assume punctuation and numbers symbols are not included in the passed string.
4. Write a JavaScript function that accepts a string as a parameter and find the longest word within the string. Using builtin functions.

Example string : 'Web Development Tutorial'   
Expected Output : 'Development'

Write a JavaScript function to extract unique characters from a string.   
Example string : "thequickbrownfoxjumpsoverthelazydog"  
Expected Output : "thequickbrownfxjmpsvlazydg"

Write a JavaScript function to  get the number of occurrences of each letter in specified string.

Sample input : The quick brown fox jumps over the lazy dog

Sample Output: "T":1,"h":2,"e":3,"q":1,"u":2,"i":1,"c":1,"k":1,"b":1,"r":2,"o":4,"w":1,"n":1,"f":1,"x":1,"j":1,"m":1,"p":1,"s":1,"v":1,"t":1,"l":1,"a":1,"z":1,"y":1,"d":1,"g":1

1. Write a JavaScript function that generates a string id (specified length) of random characters.

*Sample character list* : "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789"

Length : 8

Output : XppJs2BC

1. Write a JavaScript function to find longest substring in a given a string without repeating characters.

Sample Input : google.com

Sample Output: gle.com

Sample input : example.com

Sample output: xample.co