# Changing case

1. Write a program that takes user input. Convert and show the input in capital letters.

2. Write a program that takes user input. Convert and show the input in title case.

# Strings: measuring length and extracting parts

1. Write a program to take a user input about his favorite mobile phone model. Find and display the length of user input in your browser.

2. Write a program to display the last character of a user input.

# Strings: finding segments

1. Write a program to find the index of letter “n” in the word “Pakistani” and display the result in your browser.

2. Write a program to take user input and store username in a variable. If the username contains any special symbol among (@ . , !), prompt the user to enter a valid username.

3. You have a string “The quick brown fox jumps over the lazy dog”. Write a program to count number of occurrences of word “the” in given string.

# Strings: finding a character at a location

1. Write a program to find the character at 3 rd index in the word “Pakistani” and display the result in your browser.

# Strings: replacing characters

1. Write a program to replace the “Hyder” to “Islam” in the word “Hyderabad” and display the result in your browser.

2. Write a program to replace all occurrences of “and” in the string with “&” and display the result in your browser.

var message = “Ali and Sami are best friends. They play cricket and football together.”;

## Rounding numbers

1. Write a program that takes a positive integer from user & display the following in your browser.

a. number (example number: 3.45214)
b. round off value of the number
c. floor value of the number
d. ceil value of the number

2. Write a program that takes a negative floating point number from user & display the following in your browser.

a. Number (example number: -2.678 )
b. round off value of the number
c. floor value of the number
d. ceil value of the number

## Generating random numbers

1. Write a program that simulates a dice using random() method of JS Math class. Display the value of dice in your browser.
2. Write a program that simulates a coin toss using random() method of JS Math class. Display the value of coin in your browser.

2 = Heads and 1 = Tails

3. Write a program that stores a random secret number from 1 to 10 in a variable. Ask the user to input a number between 1 and 10. If the user input equals the secret number, congratulate the user.

## Converting strings to integers and decimals

1. Write a program that asks the user about his weight. Parse the user input and display his weight in your browser.

Possible user inputs can be:

a. 50
b. 50kgs
c. 50.2kgs

d. 50.2kilograms

## Converting strings to numbers, numbers to strings

1. Write a program that converts a string “472” to a number 472.
   Display the values & types in your browser.
   Hint: (use typeof())

2. Write a program that converts the variable num to string.
   var num = 35.36 ;
   Remove the dot to display “3536” display in your browser.

## Controlling the length of decimals

1. Write a program to control the length of decimals to 2.
   var percentage = 30 / 45 * 100; -> 66.66666666666666