

Object
Array
Functions

Q1. Declare a variable name cities and assign it an empty array and console it.

Q2. Use variable of the previous question and assign it value from 0 to 5th index and console it.

Q3. Ask user his 3 favourite movies and put them in an array

Q4 Declare 3 variables city1, city2 and city3. Each should have an object with following information: name, population, province name, is it capital or not?

Once you have created all 3 variables, put them in an array and console the array and objects individually

Q5 make following data for 5 students using arrays and objects

Name, roll number, father's name, subjects, DOB

Once you have created data for all 5 students and put them in array, console it.

Q6 Make a function that will greet user as "Hello Sir" and call it twice.

Q7 Make a function that will take first and last name of user and will greet user like: "Hello Firstname Lastname". Take user first and last name via prompt, pass them to function and call it.

Q8 Make 5 functions that takes 2 params and console the values after applying following mathematical operations: + - * / %

Use all 5 functions and pass them different numbers

Q9 Make a function that will take a number and **return** its square

Q10 Here is the formula for pythagoras theorem:

$$H^2 = B^2 + P^2$$

Make a function that will take Base and Perpendicular and return square of hypotenuse

Q11 Make a function that takes username, roll number and favourite subject name (only 1) and return an object having all 3 informations.

Q12 Make a function that will take username and return as greeting "Happy Birthday username"

Q13 Formula is: $(a - b)^2 = a^2 - 2ab + b^2$

Make a function that will take 2 params and console the solved value as per formula above

Q14 Formula is: $(a + b + c)^2 = a^2 + b^2 + c^2 + 2(ab + bc + ca)$

Make a function that will take 3 params and console the solved value as per formula above

Q15 Make a function that finds area of a circle. Formula is: $A = \pi r^2$

Where $\pi = 3.14$

Q16 Make a function that finds the circumference of a circle. Formula is: $C = 2 \pi r$ where $\pi = 3.14$