

Exercise 1:

Create a webpage (recipes) with the below:

Heading

Para1: Introduction

Para2: How to?

List: Ingredients

Measurements of ingredients as tables

Images of the food (3 images with different sizes)

External videos links to any youtube videos or sites.

Exercise 2:

Create a travel blog

1. Headings, multiple paras, list of places to visit along with images, things to do as list, Itinerary as table etc. Use your imagination to create a travel blog that others might find useful. Google such blogs and come up with your own ideas

Exercise: 3

Use the attached form (form_exercise_3.html and the screenshot for expected output

Follow the instructions in the html provided as comments and build the form.

Exercise 4:

Create a HTML form that looks like Exercise 4. and 4.2 image

Javascript**Exercise 5:**

The Fortune Teller

Why pay a fortune teller when you can just program your fortune yourself?

Write a function named tellFortune that:

takes 4 arguments: number of children, partner's name, geographic location, job title.

outputs your fortune to the screen like so: "You will be a X in Y, and married to Z with N kids."

Call that function 3 times with 3 different values for the arguments.

The Puppy Age Calculator

You know how old your dog is in human years, but what about dog years? Calculate it!

Write a function named `calculateDogAge` that:
takes 1 argument: your puppy's age.
calculates your dog's age based on the conversion rate of 1 human year to 7 dog years.
outputs the result to the screen like so: "Your doggie is NN years old in dog years!"
Call the function three times with different sets of values.
Bonus: Add an additional argument to the function that takes the conversion rate of human to dog years.

The Lifetime Supply Calculator

Ever wonder how much a "lifetime supply" of your favorite snack is? Wonder no more!

Write a function named `calculateSupply` that:
takes 2 arguments: age, amount per day.
calculates the amount consumed for the rest of the life (based on a constant max age).
outputs the result to the screen like so: "You will need NN to last you until the ripe old age of X"
Call that function three times, passing in different values each time.
Bonus: Accept floating point values for amount per day, and round the result to a round number.

The Geometrizer

Create 2 functions that calculate properties of a circle, using the definitions here.

Create a function called `calcCircumference`:

Pass the radius to the function.

Calculate the circumference based on the radius, and output "The circumference is NN".

Create a function called `calcArea`:

Pass the radius to the function.

Calculate the area based on the radius, and output "The area is NN".

The Temperature Converter

It's hot out! Let's make a converter based on the steps here.

Create a function called `celsiusToFahrenheit`:

Store a celsius temperature into a variable.

Convert it to fahrenheit and output "NN°C is NN°F".

Create a function called `fahrenheitToCelsius`:

Now store a fahrenheit temperature into a variable.
Convert it to celsius and output "NN°F is NN°C."

Exercise 6: Practice exercises from here:

<https://www.w3resource.com/javascript-exercises/javascript-basic-exercises.php>

Exercise 7:

Write a function to find the area and perimeter of a Circle

Function `circleValues()` returns the perimeter and area of the circle provided the radius as an argument for the function call.

Write a function to reverse a number

Function `reverseNum()` returns the reversed number for the given argument number value.

Count number of Vowels in String

Function `countVowel()` returns the number of vowels in input string. Learn more about JavaScript String methods from javatpoint.com/javascript-string.

Flatten array of arrays using JavaScript reduce

Function `flattenArr()` flattens a 2D array by combining each sub array into 1D array by using JavaScript reduce.

Write a function to check if an input string is a palindrome

Function `checkPalindrome()` return a boolean value based on whether the input string is palindrome or not.

Write a function to calculate simple interest based on the principle amount

Function `simpleInt()` returns a final amount based on the simple interest formula provided principal amount, rate of interest per year, and time on a yearly basis.

Write a function to calculate compound interest based on the principle amount

Function `compoundInt()` returns a final amount based on the compound interest formula provided principal amount, rate of interest per year, time on a yearly basis, and n as the number of times that interest is compounded per unit time.

Write a function to generate a random number

Function `genRandom()` return a generated random integer number between the provided start and end range.

Write a function to find Factorial of a number

Function `getFactorial()` return the factorial of a number using the formula $n*(n-1)*(n-2)*...$

Write a function to add unlimited numbers

Function ``addNumber()`` returns the sum of all the numbers passed as arguments of the function.

Write a function to combine unlimited arrays

Function ``addArrays()`` return the concatenated array by combining all the arrays passed as an argument of the function.

Write a function to find the count of a letter in a string

Function ``letterCount()`` returns the count of letters in a given string.

Write a function to check if a number is Prime

Function ``checkPrime()`` returns a Boolean value based on whether the number is Prime or not.

Exercise 7:

Using a loop, iterate through this array and `console.log` all of the people.

Write the command to remove "Greg" from the array.

Write the command to remove "James" from the array.

Write the command to add "Matt" to the front of the array.

Write the command to add your name to the end of the array.

Using a loop, iterate through this array and after `console.log`-ing "Mary", exit from the loop.

Write the command to make a copy of the array using `slice`. The copy should NOT include "Mary" or "Matt".

Write the command that gives the `indexOf` where "Mary" is located.

Write the command that gives the `indexOf` where "Foo" is located (this should return -1).

Redefine the `people` variable with the value you started with. Using the `splice` command, remove "Devon" from the array and add "Elizabeth" and "Artie". Your array should look like this when you are done `["Greg", "Mary", "Elizabeth", "Artie", "James"]`.

Create a new variable called `withBob` and set it equal to the `people` array concatenated with the string of "Bob".

Notes:

1. Create a new repo `bootcamp_homework` in github
2. Create a new project under your workspace directory
`C:/Users/YourUserName/workspace/bootcamp_homework` (The names should be exactly same)
3. Associate the github repo to your new homework project folder

Open folder C:/Users/**YourUserName**/workspace/bootcamp_homework in Visual studio code.

Click terminal

Make sure you are in C:/Users/**YourUserName**/workspace/bootcamp_homework or /users/**YourUserName**/workspace/bootcamp_homework (for mac)

git init

Git remote add origin https://github.com/YourAccountName/bootcamp_homework

4. For each exercise create a folder
Ex: exercise_1, exercise_2 etc.
5. Under each exercise, create a separate file for each program.

**** add, commit, push each finished exercise into the respective folder**

Some notes for git commands:

git init - for initializing a local directory to be associated with github repository in github.com
(This will be done only once at the start of the project)

git remote add origin <https://github.com/Shan1126/html-basics.git> (ANY URL FOR A REPO THAT YOU ARE WORKING ON) - THIS IS ALSO DONE ONCE

pwd - present working directory

ls - list all contents in the current directory

cd - change to a directory

git remote -v - gives you the url associated with your local project folder

git add file-name

git commit -m"Initial commit"

git push