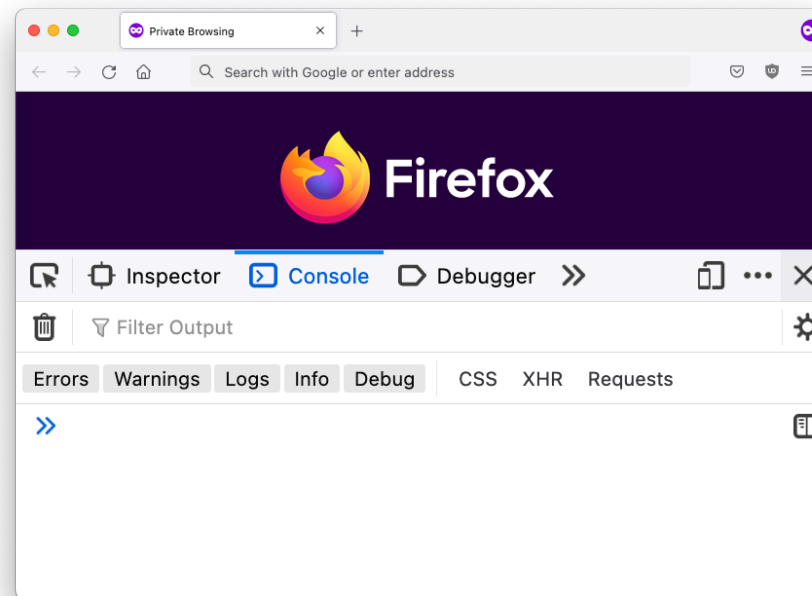


Hands-on Exercise: Getting Started With Programming

Web Browser Developer Console

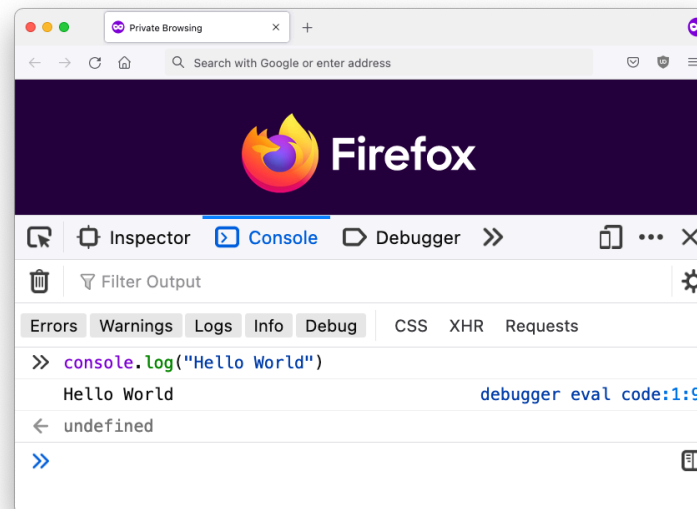
1. Open up your preferred web browser (we recommend *Chrome* or *Firefox*)
2. Press F12 (or go into the **developer console**), you should see a **Console** tab



Task 1: Print Statement Using `console.log()`

1. Try writing the following Javascript command and ensure that Hello World is printed out.

```
console.log("Hello World");
```



Task 2: Defining Variables

1. Define 2 numeric variables
2. Multiply them up using the `*` operator and assign the results to another variable.

Questions to reflect on:

- How do you decide on the name of a variable?
- What is a valid variable name?
- What is an invalid variable name?

Identifiers

- Officially, an identifier is the name given for a variable or function
- Identifiers in most programming languages usually:
 - Start with a letter (A-Z, a-z) or the underscore character (`_`)
 - Followed by letters (A-Z, a-z), digits (0-9), and the underscore character (`_`)
 - Must not be a keyword or reserved word such as `while` , which has a special meaning in Javascript or Python

Task 3: Working With If-Else Statements

1. Write a small program that initializes a `score` variable.
2. Then print out "Pass" or "Fail" depending on the value of the score (assuming the failing mark is 49 and below)

```
var score = 85;  
  
//TODO: fill in the if-else statement
```

Questions to reflect on:

- What if we have more than 2 cases, how can we define the if-else statements?

Task 4: Working With If-Else Statements

1. Complete the Javascript codes to assign the largest number to the `largest` variable

```
var n1 = 20;  
var n2 = 1;  
var n3 = 55;  
var largest;
```

```
//TODO: using if-else statements to assign the largest value  
//of n1, n2, n3 to `largest`
```

Task 5: Working With Functions

1. Write a `getBMI(weight, height)` function which takes in a weight in KG and a height in m, and returns the BMI of a person
 - BMI is defined as `weight_in_kg` divided by the square of `height_in_m`

```
function getBMI(weight, height){  
  //TODO:  
  var bmi = ??; //TODO fill in  
  
  return bmi;  
}
```