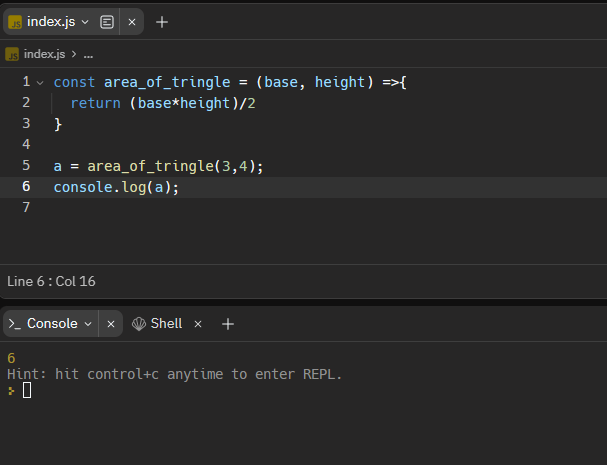
Hands – On Lab

**Workshop 3**

1. Write a function that takes the base and height of a triangle and returns its area.



1. You are counting points for a basketball game, given the amount of 2 – pointer scored and 3 – pointer scored, find the final points for the team and return the value.

Text

Description automatically generated

1. Create a function that takes a number as an argument. Add up all the numbers from 1 to the number you passed to the function.

Text

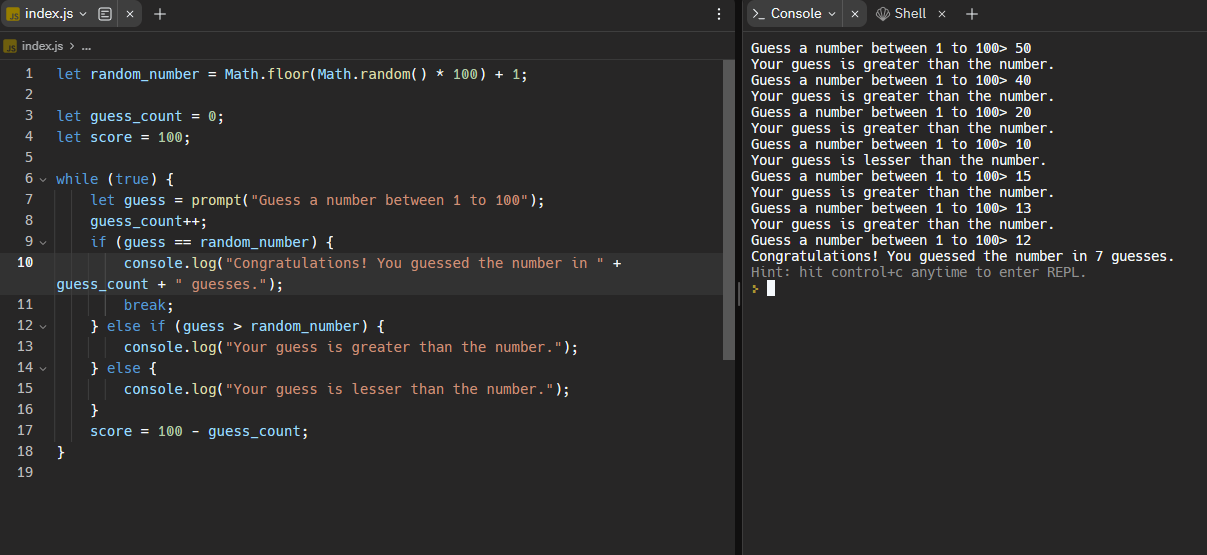
Description automatically generated

1. Create a function that returns true if there is at least one prime number in the given range (n1 to n2) inclusive, false otherwise.

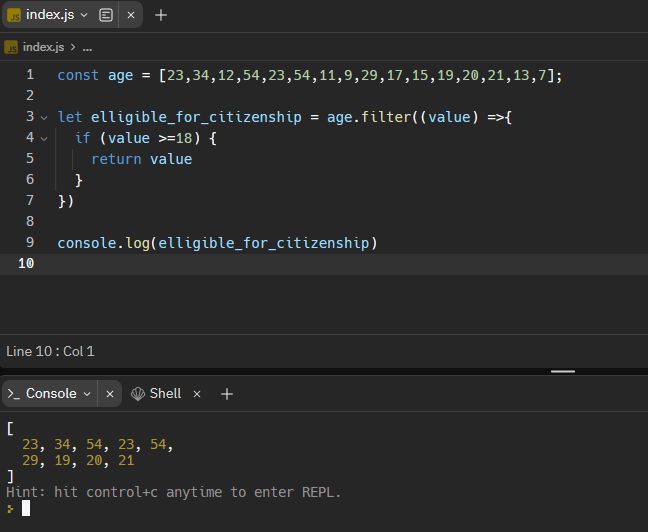
Graphical user interface, text, application

Description automatically generated

1. Generate a random number (do research) and store it in a variable. Write a program to take input from the user and tell them whether their guessed number is correct, greater or lesser than the original number. (100 – number of guesses) is the score of user. The program is expected to terminate once the number is guessed. The number should be between 1 – 100.



1. Const age = [23,34,12,54,23,54,11,9,29,17,15,19,20,21,13,7]
2. Filter the array of ages who can apply for citizenships.



1. Find the average age of a given array.

Text

Description automatically generated

Const companies = [

{ name: "XYZ", category: "Retail", start: 1991, end: 20012 },

{ name: "ABC", category: "Finance", start: 1981, end: 2004 },

{ name: "DGF", category: "Finance", start: 1976, end: 2008 },

{ name: "LFT", category: "Retail", start: 1971, end: 1979 },

{ name: "MND", category: "Retail", start: 1995, end: 2010 },

{ name: "HCK", category: "Technology", start: 1987, end: 2011 },

{ name: "BMC", category: "Technology", start: 1989, end: 2009 },

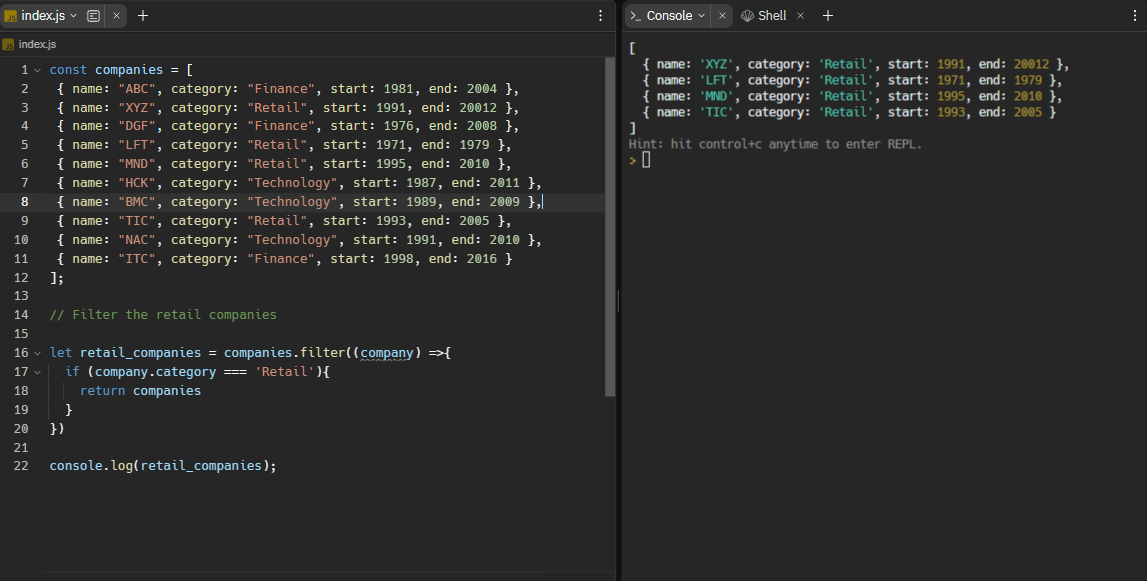
{ name: "TIC", category: "Retail", start: 1993, end: 2005 },

{ name: "NAC", category: "Technology", start: 1991, end: 2010 },

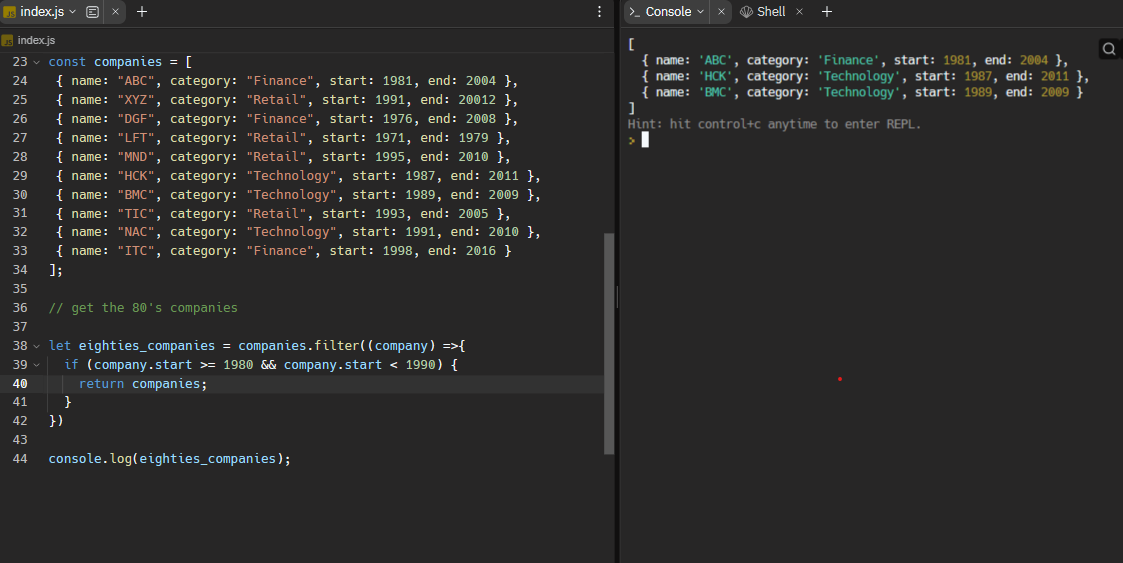
{ name: "ITC", category: "Finance", start: 1998, end: 2016 }

];

1. Filter the retail companies



1. Get the 80s companies from the array.



1. Get the companies that lasted for 10 or more years.

