Program 6: Chapter 9 Binding of Global Variables During Subroutine Passing

**Problem Description:**

* The problem we are trying to figure out is whether JavaScript implements shallow, deep, or ad hoc binding of variables. To solve this problem, I implemented the code from the textbook and added a call to sub1() then ran it on my mac. Once I finished implementing the code, I realized I didn’t have the NodeJS Runtime Environment downloaded on to my laptop so I couldn’t run the program. After downloading it and running it, I got the value of x to print in the terminal window by using console.log() within the program instead of alert() like the textbook uses.

**Conclusion:**

* Based on the output of the program for x being 1, we can conclude that JavaScript uses deep binding. In the code, we can see that x = 1 in sub1()’s environment. This means that when we call sub2(), it is referencing the environment of sub1(). So, the ‘x’ referenced in sub2() is bound to ‘x’ of sub1(), therefore outputting a 1 in the print statement.

**JavaScript Code & Output:**

**Text

Description automatically generated**

**A picture containing text

Description automatically generated**