## PA 5: Binding of Global Variables During Subroutine Passing

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**Problem Description:** Implement the following pseudo-code in Javascript. Now we have to determine if JavaScript implements Shallow, Deep, or Ad Hoc Binding.

Javascript code: (pa5.js)

```
function sub1() {
    var x;
    function sub2() {
      console.log(x);
    function sub3() {
     var x;
      x = 3;
      sub4(sub2);
    function sub4(subx) {
     var x;
     x = 4;
     subx();
    };
    x = 1;
    sub3();
  };
  //Call the function
  sub1();
```

## **Output:**

```
C:\Users\ICT\Downloads\CS 471\PA5_PLS_Indronil_Bhattacharjee>node pa5.js
1
```

## **Conclusion:**

From the results we can see, the return value is 1. This means that this environment is running deep binding since the x value is obtained from sub1.