**Lab 7: Lie Detector Test:**

For a better layout of the code, please check the link below:

<https://github.com/AhmedAbdelRazak/RCC/blob/master/Chapter7/lieDetector.html>

<!DOCTYPE html>

<html lang="en">

    <head>

        <title>Lie Detector Test</title>

        <meta charset="UTF-8" />

    </head>

    <body>

        <script>

            //Defining function lieDetectorTest

            function lieDetectorTest() {

                //initializing a variable to count the number of lies.

                //for sure, before the program starts, there will not be any lies

                var lies = 0;

                //initializing an empty object stolenDiamond

                var stolenDiamond = {};

                //Request # 1

                //the statement below will be truthy since we only have five falsey values (undefined, null, 0, "", false)

                // other than those five, everything is truthy

                if (stolenDiamond) {

                    //I should expect "You stole the diamond" in the console first thing

                    console.log("You stole the diamond");

                    //lies should increase from 0 to 1

                    lies++;

                }

                //defining a car object with one element keysInPocket

                var car = {

                    keysInPocket: null,

                };

                //Request # 2

                //As stated above, car.keysInPocket should return null which is a falsey statement.

                // since it is false, then the code block in the if statement below won't be executed.

                if (car.keysInPocket) {

                    console.log("Uh oh, guess you stole the car!");

                    lies++;

                }

                //Request # 3

                //car.emptyGasTank will return undefined which is false.

                //It will return undefined because emptyGasTank is not defined in object car

                //Therefore, the if statement below won't be executed

                if (car.emptyGasTank) {

                    console.log("You drove the car after you stole it!");

                    lies++;

                }

                //defining a variable with an empty array

                var foundYouAtTheCrimeScene = [];

                //Request # 4

                //This one if statement will be executed because it is out of our 5 falsey returns

                if (foundYouAtTheCrimeScene) {

                    //I should expect to find this 2nd in the console "A sure sign of guilt"

                    console.log("A sure sign of guilt");

                    //lies will increase from 1 to 2

                    lies++;

                }

                //Request # 5

                //This one will return undefined which is a false statement.

                //The code block w/n the below if statement won't be executed

                if (foundYouAtTheCrimeScene[0]) {

                    console.log("Caught with a stolen item!");

                    lies++;

                }

                //Defining a string with a single space

                var yourName = " ";

                //Request # 6

                //This is true, thus, the code block w/n the if statement will be executed

                if (yourName) {

                    //I should expect the string below in the console (Should be the third)

                    console.log("Guess you lied about your name");

                    //lies will increase by one to be from 2 to 3

                    lies++;

                }

                // If this function is called, It should return how many lies.

                // In this program, lies should be 3

                return lies;

            }

            //storing the number of lies in a variable numberOfLies

            var numberOfLies = lieDetectorTest();

            //I should expect in the console the below statement

            // It should appear the fourth sentence in the console

            console.log("You told " + numberOfLies + " lies!");

            //Request # 7

            //The numberOfLies >= 3 is a true statement

            //Thus, the code block w/n the below if statement will be executed

            if (numberOfLies >= 3) {

                // I should expect the below sentence in the console (fifth sentence)

                console.log("Guilty as charged");

            }

        </script>

    </body>

</html>

As I commented in the code section the order of the output in the console, Please check the screenshot below for the final output:

Graphical user interface, text, application, email

Description automatically generated