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JavaScript Exam 1

Time Limit: 60 minutes  
Total Possible Points: 58

*This is an open-note exam comprised of 8 True & False, 7 Matching, 9 Multiple Choice and 6 Coding Problems for a total a total of 75 points. Please answer each question to the best of your ability. Do not seek help from other students regarding the exam. Turn in the exam and JavaScript code file to your folder on GitHub or email them to me directly by 9:00 am Saturday May 2nd.*

True & False

*Please read each question carefully, and legibly write T (true) or F (false) on the line next to the question. Each question is worth* ***1 point.***

\_\_F\_\_ Undefined variables are those that are declared in the program but have not been given any value

\_\_F\_\_\_ 92 = = = ‘92’ returns the result true

\_\_F\_\_ The keyword continue exits a loop

\_\_T\_\_ The NULL value is used to represent no value or no object

\_\_F\_\_ The expression 7 % 2 will return 3

\_\_T\_\_ The OR operator looks like this ||

\_\_T\_\_\_ The keyword this refers to a function’s calling/”owner” object

\_\_F\_\_ An array is a primitive data type

Matching

*Match each term to its definition. Each question is worth* ***1 point.***

\_\_5\_\_ String

\_\_6\_\_ Object

\_\_2\_\_ Floating Point

\_\_4\_\_ Boolean

\_\_7\_\_ Function

\_\_1\_\_ Integer

\_\_3\_\_ Operator

* A whole number (not a fraction) that can be positive, negative, or zero
* A number containing a decimal
* A subset of algebra used for creating true/false statements
* A character that represents an action, as for example =, + or –
* A set of characters that can also contain spaces and numbers
* An abstract data type with properties and methods
* A block of code designed to perform a particular task.

Multiple Choice

*Please read each question carefully and clearly mark the best answer. Each question is worth* ***2 points.***

* The keyword 'this' in JavaScript refers to the \_\_\_\_\_ from where it is called.
* Variable
* Object
* Function
* If a = 4 and b = “6”, what would be the result of a + 3 + b
* 76
* 436
* 13
* What statement exits a loop?
* exist
* stop
* break
* Which characters are used for multi-line comments?
* \\
* //
* /\*
* Which of these variable keywords is NOT block scoped?
* let
* var
* const
* What array object method is used to remove the first element in an array?
* pop()
* shift()
* split()
* In the function below, what type of variable is count?  
  var count = 0;

function method () {

count++;

}

* Global
* Local
* Both
* Which of these options is the correct way to retrieve the age property for the object:   
  var person = {firstName:"John", lastName:"Doe", age:50, eyeColor:"blue"};
* person.age
* getAge()
* return age
* What will the output of this code be?

var x = 21;

var print = function () {

console.log(x);

var x = 20;

};

print();

* 20
* undefined
* 21

Coding Problems

*Please read each question and any sub-questions carefully and submit a JavaScript file with the coded answers to the GitHub folder. Each question is worth the amount of* ***points*** *distinguished at the end of the question. Partial credit will be given for this section. I couldn't use a javascript file so I just typed it right into the document hopefully this works, sorry.*

* Create an array that containing all seven days of the week. (3 points)

String[] daysOfWeek = {“Sunday”, “Monday”, “Tuesday”, “Wednesday”, “Thursday”, “Friday”, “Saturday”};

* Write a FOR loop that prints each day of the week from the array your created above. (4 points)

for (String daysOfWeek) {

System.out.println(daysOfWeek);

}

* Write a SWITCH statement for days for the week using an integer number variable with the CASE statements. (3 points) EX: 1 – Sunday, 2 – Monday … 7 - Saturday

class WeekDays

{

public static void main(String s[])

{

int day = 2;

switch(day)

{

case 1:

System.out.println("Sunday");

break;

case 2:

System.out.println("Monday");

break;

case 3:

System.out.println("Tuesday");

break;

case 4:

System.out.println("Wednesday");

break;

case 5:

System.out.println("Thursday");

break;

case 6:

System.out.println("Friday");

break;

default:

System.out.println("Saturday");

break;

}

}

}

* Add a method to the object person called display that prints out the object’s properties in the following format (4 points): “5566 Doe, John 50yrs”  
  var **person** = {  
    firstName: "John",  
     lastName : "Doe",  
     id  : 5566,  
   age : 50  
     fullName : function() {  
      return **this**.firstName + " " + **this**.lastName;  
     display : function() {  
      return **this**.id " " this.lastName + ", " + **this**.firstName + " " + this.age + "yrs";  
  }  
  };
* Write a recursive function takes one parameter and prints hello the number of times designated by the parameter before printing goodbye (6 points): Example: hello(2); would return “Hello Hello Goodbye”

function hello (H)

hello(H) return this.hello + " Goodbye"

}

I tried really hard but was unable to figure this one out hopefully this is good enough

* Write an object called House that has 4 properties streetAddress, zipCode, ownerLastName, yearBuilt. The House object has two methods ageOfHouse and isLocatedInIndiana. Find the age of the home using the Date object methods and the year built. For the isLocatedInIndiana method, all Indiana zip codes are between 46001 and 47997. Finally, create array called town that has 3 or more House objects within it. (10 point)

var **House** = {  
  streetAddress: "687 Faleling Drive  
   zipCode : "46063  
   ownerLastName  : "Brettmen"  
 yearBuilt : 2001  
 year : 2020

String[] town = {“Cloverfield", "Bakerdale", "Glennvile"};  
   ageOfHouse : function() {  
    return "This house is " + "**this**.year - **this**.yearBuilt;  
   isLocatedInIndiana : function() {  
    return **this**.streetAddress + this.zipCode + " is where the house is located.";  
}  
};