## Lab 04: Introduction to JavaScript

- 1. Evaluate the following statements using Chrome DevTools Console:
  - a. 760 % 9
  - b. ("WIF2003" + "Web Programming")[10]
  - c. "helloworld".length % "him\\".length
- 2. Write a "JS Stalker" program in html (stalker.html) and an external JavaScript file named "stalkerscript.js". You JavaScript program needs to use variables, strings, prompt and console log to do the following tasks:
  - a. Ask for the user's first name
  - b. Ask for the user's last name
  - c. Ask for the user's age
  - d. Print out the user's full name in a message within a pop-up box: "Hello, full name! Welcome to this page."
  - e. Print out the user's age in a sentence in the browser's JavaScript console: "You are age years old."
  - f. Print out the user's full name and age in a sentence directly to the HTML document (stalker.html): "Hello, full name! You are age years old."
- 3. Evaluate the following statement (True or False):

```
var x = 10;
var y = "a"
y === "b" || x >= 10
```

4. Evaluate the following statement (True or False):

```
var x = 3;

var y = 8;

! (x == "3" | | x === y) && ! (y != 8 && x <= y)
```

- 5. Evaluate the following statement to check the Truthy and Falsy Values:
  - a. !"Hello World"
  - b. !""
  - c. !null
  - d. !0
  - e. !-1
  - f. !NaN
- 6. Print out all odd numbers between 10 and 40. Write two solutions: one with a *while* loop and one with a *for* loop.
- 7. Write a function **printReverse()** that takes an array as an argument and prints out the elements in the array in reverse order on the browser's JavaScript console (don't actually reverse the array itself).

```
Sample output in console:
```

```
printReverse([1,2,3,4]);
```

4

3

2

## WIF2003 Web Programming

```
1
printReverse(["a","b"]);
"b"
"a"
```

8. var someObject = {};

Which of the following are valid:

- a. someObject.\_name = "Hedwig";
- b. someObject.age = 6;
- c. var prop = "color"
   someObject[prop] = "red";
- d. someObject.123 = true;
- 9. Create an array of movie objects. Each movie should have a title, rating, and hasWatched properties. Iterate through the array and print out something that looks like:

```
You have watched "In Bruges" - 5 stars
You have not seen "Frozen" - 4.5 stars
You have seen "Mad Max Fury Road" - 5 stars
You have not seen "Les Miserables" - 3.5 stars
```

10. Write a function prettyPrint() that accepts an object as an argument and prints out a "pretty" string version of the object.

```
prettyPrint({name: "Rusty", species: "dog", breed: "mutt"});
```

The above code should print the following 3 lines:

name: Rusty species: dog breed: mutt