CPSC 216 - Java Script

Java Script is a full-featured, objectoriented programing language that alborrs
us to implement a LOT if new and
cool features in our web pages / websites.

It can make our webspages degramic,
as opposed to static. It enables a
much shipler degree of interaction and
engagement with when is a good
thing!

Review of Basis.

Prigramis.

- 1. Variables
- 2. Arim metiz
- 3. Conditionels
- 4. Loops
- 5. Functions

Vin charle

المعدد مادا Scope/Globals V have sear 6. vrost/au of Arrays < 7. this in Objects Z δ. CPSC 140/150 Maps 9. Python! Data Types Some (primitive) 10. Exception Handling

-) functionality is the same in most programming languages ... just slightly different syntax!

e.g. Franch vs. Italian vs.

Gerna vs. English

Soc. Index-review. html in Chapter 6,

See mdex-review. html in Chapter 6, and the comments there is!

L00ps:

Prioruple I den:

In the tones you was

"If you know miss many !! If you to loop, use a for loop!! If you don't, use a while loop!!"

Despectly

have some variable that is used

to (a) decide when the loop is

die, one (b) serve as an index

to arrap, etc. within the loop

O definition and starting when (3) increment

For (var i = \$\phi\$) i < MAX; i++) {

- (2) termudian

condition

Ovari= Ø ; (2) {
While (i<imqx) {

Functions

-) p1, p2, --- are parameters that

one "passed" to the function, from

"Somewhere olse", i.e, the bourser,

the server, another put of the script,

some other function, ... etc.

, the names of the paremeters

in The function read not (shouldest!)
be the Same as whoever calls The
function!!!!

Examples:

function add
$$(a, b)$$
 {
$$a = a + 1;$$

$$b = b + 1;$$

$$c = a + b;$$

$$return c;$$

var r2 = add (x19);

 $\frac{x}{13}$

34 45

9 Copy L I The point here is that a, b are Copies of X,y. Changing a, 5 mm ne function does not change 2,5 u pass by value. This is called

Defant Valles:

function a = a + 1; a = a + 1; b = b + 1; c = a + b; return c;

Fretions + Loops + If-Else Example. (Zylab 6.17) Guessing Game (Simple Stapid Versim)

- 1) A function gets called with

 Two parameters 1) Anomber

 to be grassel

 Quessos.
- 12 The user Car then gross. The nuter, up to MAX threes.
- 3 with each guess a "hister/love" hint is given (unless they

```
your has it
              Simulate performanne.
Step 1:
      (37,10)
         1 + of gresses.
           ~ ) ower "
   50
           -> "higher"
   25
           -> "higher"
   35
               "I dwer "
   40
                             -s 5 gress.
               "Correct!
   37
              Pseulo Code
Stap 2:
          (total gresses < nAx) {
             input guers
             if guess > #
                    - " | Twr "
```

it goess & " else " correct" ... exit losp! # of grasses Yn did not get it. Actual code, maybe. Stap 3: -> lots of "print" statements to help labus lots of comments to organize thought. Jours on basic

fundimelity, frat.

Step 4: Sanity Checking

I mink about bad / Shepid

User input (enters nothing),

aters String instead of

nowher, etc.)

about in pot valos that

Lines problems

"bob Smith" (spaces)...

Upper case vs. luxer case...