Oct. 26 2017 2 rel Half of Class Start material after mustom C53 010 PHP: Server side language Chin - PHP - object, dynamic typing The cureon he used in the mode of HTML Must we externe iphp Types: Integer; louble = Floats; Arnas; Boolean

- 2 Form for Arna contants

- D - or 2 " " O Allows expression better polation

- D U - or 2 " Hexpression) will be replaced by the expression

- For single var the var example: " the sum is # total In"

- D "the bor is # (# total / # court)

- Une Me and A L Company to the sum of Variable are Standard form except they always stort w/ & implicitly declared as use · Exprosion: number +, -, *, /, /, ++, --, mixed anthometry cast to duble If int divine down't give exact value, the answer of dable Functions abs, floor, wil; on, rurel, min, max, remel (V, , V2) &

p smel . Stoney - I operator concertence tran, Example "2" + "3" = 5 "23" " We can reference individual cheractor name that (0-bused position) Function strlen(str) XX stremp(str7, str2) - oretinar an int - Strps (5+17, 5+12) 0 1+ sm; (+ 1+ 5+1) str2; (+ +1<5+2) Shart Por of Shr7 in shr2

Str to low (Str) C5 3010 page 2 Arto uppr (Str) 10/25/17 n white pare for end tom Str - Further controld " both erd " beginning Strim 1 - Assignment: Ad clett and c - Output: When used as a form reporter, the output of pitp is sent to the elient zdgx&@mail.umsl.edu SOUND TO BE SEED TO BE A STATE OF THE SOUND The man de vote the second of the land of

PHP - Serve side language; dynamic typing Standard variable; std arithment ((, ett opera tors); std assignments o print string; [free firmat] print f ("format", expressen, expressen) #I total portion 1, #1 #2f pant warpading expression as flout V/ #2 diget after decimal g Control Structurer: Std hoolean operator; Std comparitors - 12 Ad howlern operators & A; 11; 1; plus and, or Decision stol if/elselt/else - the hody are single statement 1 Stel switch lease if body is bregger, 47 Loops - std while; do-while; for loops PArrays - keys - values; the keys can be strings, accomplante array come into being ky assigning to an elevent # A ["Mo"] = 43; Array constructor - + #B = array (lay = valve, ...)

exemple: # capitals = array ("co" => "denver", "50" => "Ple re".); Access \$var [key] All parallel access = \$ unset (array - ref); remove elevent M unset (array none); remove alray array they (arrayname) -> returns an array of keys; indexed to 0 -> arrang_valver (arrangeme) -> return arrang of valver; indexed O -> arrow-by-exists (key) -> returns fre it valid key/kalve else

11/2/17 PHY CS 3010 Arrays - Associative Arrays akeys com he stongs of no space allowed for mused Keys Harr = array - Keys (Harray) T array Key existr Ay his size of (Harray) Want to go through all elements in gray? It is well to step through all array elements. May not know all they 2 others: or) current (starray) "points" to the "current" element; returns value next (# array) move current to next item; returns the new current value using only next() never returns the first value b) each (darray) - return an array of (key, value) then move coment return Falve (not an arrows) & end:

15. array (\$var) - TIF array

EN. Fif not array -Funting - A fination now are NOT care sensitive. o Fla defuthour of Funton none (parameter) 5 the: return [expression]; (poremeters) the number of call paramenters need not match number of defined Variable Scope: All further are local in extent (like c/ctt) by detault You can declare a vertable as global; global It was Minhents that var from Normally the liketine of var is the span of function execution Mortside Hen Function exists, the variable vanish. Sometury as want to loop a value between invocations, kxaple: random number 4 X= (X. 32792 7170) 7.65387 (BAUS) return X z

11/2/17 (53010 Page 2) You can dedare a varrable static : Static & var varlet is unible in function only of the value is kept between invocations Call without : parameter are passed by value. pass by value for arrays to parsing address of the array so array contents can be changed A be will be outside I reed the ability to have changer to an argument he seen by caller Lo Example: swap (a, b) //after coll, a &b value into change a define formal parameter to be reparence by preparating & (b) eall function u/a reference smap (Aa, &b) twether swap (x, Y) PHP is often used to write the server program to handle the form data. In the form tag & form action = "url for server page" > Go For PHP this must end in ophp · The file can contain OPHP code endored in a (? php) A [?] (2) std html ortride of that · The doc returned by the server is the little code of the output from the PITP sections

Nov 14, 2017 Patabase: a database lie behind many websiter C53010 - A detabase Ira Storage block of in for mution - Adatabare menager is a program to get data w/arbitrary constraints efficiently. - There are many destature manager - o Sal; my Sal; possagre Sal The language to extract dot is pretty standard

The language in SQL; this were a dutabase as a sot of relations. Relational

Mod The database on Hogre is my SQL: db name: C53010 vernou: C53010 password: 30User 10 from comme live, no space my soll -v cs 3010 | -p30 vorto (53019) + Statements: SELECT Feld to point () squared) FROM tables (separated) WHERE condition; (I) Exmple:

set = html specifictor (# str) Char cher entition entition Database - My Sal Jal SELECT retrieval - problem w/ goots in inpt (#-GET) (#-Post) - PAP it set up to put \ before all the quoter + When you form your govery. He quito get in the wary Example SELECT., FROM, 1. When were = 1"George"; - the fly # Stort = A stort = storp slasher (\$ stor) remove buck slasher. + DB Accers Oddb ingsoli-connect (short, duser, &pars, &dbrane); "local hist" " (53010" "30 Vsor 10" " [53010" The return on value or "mengic" and will be wreet a lot rugsali-amect-erro () Til poblar; Fit not Build you request ptp strong manipulations 3 \$ Stater Hren Hr= mysgli-guery (\$db, \$guery) (4) & run hours = my sali = nun = rours (# rerult) my salt _ nun _ Freld (Arerults) # row = my sqlt _ fetch _ assoc (& results) successive calls get further rows, return faire if no more I row is an array indexed by field new (y might look like (RACK)

Gurght Look loke? Anna- Rono = my soft - nom - rows (& resoft) Al nom - Fields = my sqli, nom, fields (\$ result) I row = mysgli _ forth _ arroc (& result) Il dor plany Aveld none # keys = array - keys (throw) 1/Pmt the keys who whal realt for (Ai=0, Sichnam-rows, Ait) # Vals = array - valver (Hrow)

// Print "Lbr />" print "Lbr />"

A row = my soli _ fetch _ assoc (A revit) }

(Adh) my sali = close (\$1db) - Most effort in Step 2 eximple: using C53010 DB namer, address with either or both or reiter of O. Clume = # GET Council speed = [relation = Ut, Get, Error NEXT PAGE

Nov. 28, 2817 - the region I request = " SELECT name, Holds FROM whomes # whe = "WHERE TRUE"

If #GET [CPUNNE] != "," | #GET_ [weny]! = "." I request 2 I request, order;

I where = "cushumer, cust, no = order, custine" of ALGRET (punne) 2 & where = & where . "All con - none = " \$1 - GET (CPU_none)

Port o #db = mysqli. connect

Part Build the query - > stol PHP string manipulation Nou 30, 2017 es3010 3) \$ Noult = my sali - query (#db, #query)

rent = assoc array (indexed by Say Fred nave) 4) Display - o mysgli-freskel- assoc M mysgli-num_rows (Strent) mysoli _num_fieldr (\$ result) Std Mp to extract data (row byrow) from result - Potter ver. 2.7 (houre) & industrian is significant - it replaces need for mumber = number I floot = blooble I let = long int | braces

I big int = arb length I std grithmetic function + caution: it an expression is too long for a line, split after an operation of middle of () - assignment or arougnment - popurator = ; extended vars = list example: a, b, c=3, 2.7, 92+6

C53010 Python: Scripting language not compoled, in interactively, Use shelming line: 1. H/bin/python December 5, 2017 - Stol typer (hut no typing) - Vors NOT declared
assignment = assignment XX "="operator - it Aprif condition; the running sac sew l - D thin bedy All 3 hodro must be industed within any I elit condition: body, indestation must be consistent -> elif body else - is else body else is executed when the while and thun + loves -0 while -0 loop exits normally -s hody (without a break) else: + for loop - iterate over a set of value for target in value - D hody + usually the value is a [expression - _] La example: for in [13,5,7,9,11]:

De example: for in ["herda", "Allen", "King", " Jess"] - truetrens det nome (args): -o hoply return value. call - p nave (actuals)

Dec. 7.2017 CS 3010 - Final next Tuesday = 6 - + questions I greaten from exclusively 1thatf - errory-15th Ajax - & Beable to yoberte parts of which page allo updarting not of page. + Databur share a common accent lenguage - 2 SQL - Select - Lets you put at of data barer - work - Lets you change I delete from data have + My SQL - whaten - Itt force you to do good for matting, Forced Larristent indentations 10 AM TESTAY