MSER DEFINED FUNCTIONS

LECTURE DATE: 26 OCT 2016

Ask them what f(x) is in mothematics?

— associates a unique number to each value of x

input f(x) f(x) output

We can also write functions for MATLAB
You have already used MATLAB functions,
tets look at 2

x is a ratio

* x is a vector

angle = sin(x) [Y, I] = max(x)

a let x = 17/6 let x = [7 12 15 8 9]

TT/6 Sin () 0.5 \times Max() Y = 15 1 INPUT 1 INPUT 1 INPUT 1 INPUT 2 OUTPUTS SCALAR SCALAR ARRAY 3 CALAR 8 SCALAR 8 SCALAR

When a function expression is simple and it only needs to be evaluated once, you can just type it up as part of the program

BUT if it needs to be evaluated many times with different values it can be valuable to write a function

but can be zero

Input data Output data user defined function file - can be one or can be several vars JO SHO several vars Teach of those can be scalar or array * lets make a function together Calculate the maximum height that a ball reaches when thrown upward with a certain velocity [output_args] = untitled (input) function function the list of MUST be hame of the function output args definition inputs the first typed inside word and function line brackets owercase usnally for function to work outputs MUST at Loust be assigned, values inside one, function body

more on inputs, the math expressions inside a function
must be written according to the
dimensions of the inputs
- D (STOP) ask them if they know what
that means
D if innuts are tractors as assistings
math must be elementwise of linear algebra
*
, 3 ⁴ ,
8 18
7.2 , s'
> Ø = 3< +

HELP TEXT LINES ARE VERY IMPORTANT:
When Someone types in Help function,
they are displayed

Local vs Global Variables:

All variables in a function file are local,

That meant the variables are recognized and

defined ONLY inside the function file

workspace without overwriting them!

when saving functions, you should use a name identical to the function name

by using the function name.

If the file is a diff name, that must be used to call function

ex) hmax.m

You use the same way as a built in function