```
Scope:
```

The scope of a variable is the part of the order where that variable is defined.

I not even defined before we use it!

Functions:

When I run this function, the variable trop is not part of Workspace. The scope of the variable is just the body of the function! Why is scope Good.

- · reeps the workspace cleaner and less polluted · makes sure variables voive already defined don't accidentally change the function's behavior

Ex: FILE temp-cetsus2kdvm.m

temple = tempe + dtemp;

· Cool program:

To understand behavior of functions, I need to understand scope.

FILE: myfunction.m function == myfunction(x) z=5; 17 y=x; < 2 output Z=y; (Z=2)

end

aust: What are

Y, y, z at the end?

Sergio: y = 2

X = my function (2)

More loop practice:		
$x_i = r_i$	Quest:	
x2=1;	What is x1	
	Quest: What is x1 at the end of	Mu cade?
for K=1:5	7	455
tmp = x2;		
x2 = x1+x1;	loop K=L	
XL = tmp;	$t_{\text{mp}} = 1$	
end	x2 = {+L =2	
	KC={	x1=1, x2=2
	loop k=2	, N= =
	twp = 2	
	x2 = 1+2 = 3	
	×L=2	x1=z, x1=3
		• • • • •
	loop k=3 tmp=3	
	•	
	XL= 2+3 =5 X1 = 3	W-2 V75
		k1=3, k2=5
	loop k=4	
	tmp = 5	
	x2= 3+5=8	
	*/=5	x1=5, x20
	leap k=5	
	tup=8	
	X2=5+8=13	cl o va-
	xl = 8	xl=8 , x <i>L</i> =

