	Metleb intro
-	Introduce serval layout
	IDE
	IDE File brower
	Command history
	eO.to
	COMMAND WINDOW
_	Command Lindow & basic Variables
	a=
	$\alpha = 1$;
	b= a+1;
	۵: ری (ل)
	fpr:nff('%f/n',b)
	workspace
	work space weak us. Strong t-pe
	arrays
	- a= zeros (5,1) -> index is 1 to n
	a(3)=2
	$a(7) = 1 \rightarrow extends$
	$a(7) = 1 \rightarrow extends$ rell enreys, rell(8,1)
_	Scripts
	Command window calls
	Voriables in command whoow signe
	U

functions - Multiple function, in one file

Only top function is externally visible

- Variable scope

- IDF Debusser Variable comparison ==, <,>, <=,>=, \= Do not use == for number, use abs (a-b) < to) EE logical and all short circuiting
11 logical on all short circuiting Branching / Conditional Statements if - else - end

Switch- case- otherwise-end

```
دوره
  for c= 1:10
  <u>en</u>
     1:3:00 (0:-1:1
    ٥= 2:4:20
   for C= 9
   6,75(!)
   While eyor continue so long as
                                   expr is tre.
    629
 Basic plotting
       Plot 2( x, y)

Plot 3( y, y, Z)

log log ( x, y)

>cmilog x ( x, y)

semilog y ( x, y)
   Hondles
                   (akh to pointers)
  1) A ronymous function

f = @(x,y)(sh(x)+y)

f(4,3) & 2,2432
        formet long
```

array input f(C1 3), C3 17) \$ (3, 841) 1,1411) be corefu! f([13], [31]) a) function handles f = @ s>n Uneful as impit newton (e sm, 3, le-G) newton (e cos, 3, le-6) - Pointwise operations

by default all greations are

vector - like operations (more later) a= 1:3 & squar each element a^2 -> Fra (CTives hint)
a.^2 -> 1 4 9 - Comment d Formating Style goide.