

<u>Data definition discrotives</u>	
* asm must obey the rules of high level programming	
data definition = declarations (attributes specification) + allocation (resu. reguired m	Ю
Unique! Unique Unique Unique	ce
Unique! Unique Unique ex: int, float	
Q by whom is the allocation?	
most of the time, by the assembler, but not all voriables are allocated by the compiler (aka global voriables in the global data segment)	
some are allocated at runtime (local variables are allocated on the stack	
only addressable at runtine)	
diff. between allocating and initializing , global data segment (GD5)	
every programming language has 3 logical spaces (local variables)	
not allocated at heap (dynamic variables)	
heap (dynamic variables) purtime but dwing it process possess process proces	
how you ask for memory space	
sedurus a pointer to that mum	
a dynamic variable doesn't have a name	
Is they work with pointers bes. they don't have a mance, only a ment was	•
3 accessible only by means of associated pointer	
5tra ctural	
Variable = (name, set-of-attributes, reference, value)	
• data type size rapresentation	
associated operations	
• scope (domenio de vizibilitate) → portion of code in	

• extent - lightime (temporal)

which that variable is visible

· memory class (auto, register, static, extorn)

(Spacial Visibility domain)

ex: register int a; - if possible, it is allocated in the proovs registor for ex: a loop, going into momory is 1000 x slower than accepting a sugnister extern floot &; Lit will be imported, but this is a declaration in the modules allocation is unique, only done once, but declaration cau be done multitimes static int a; L keep it local and stop the implicit exporting 1_ if it is a local => alloc.in GDS -> lightime = whole prog. ex: float f1 (...)} statie int x= 17; kaps its value between I calls allocation declaration

declaration -> moment when the value is linked with the atentities

EQU directives

* see slides ! Study at home

derefferencing is only possible at runtime a41 db a2+1 -syntal error 4) an OFFBET cannot fit a BYTE

ahl du az+1 8+1-9 determinable at assertine value at 9 sytes from start of memory